



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

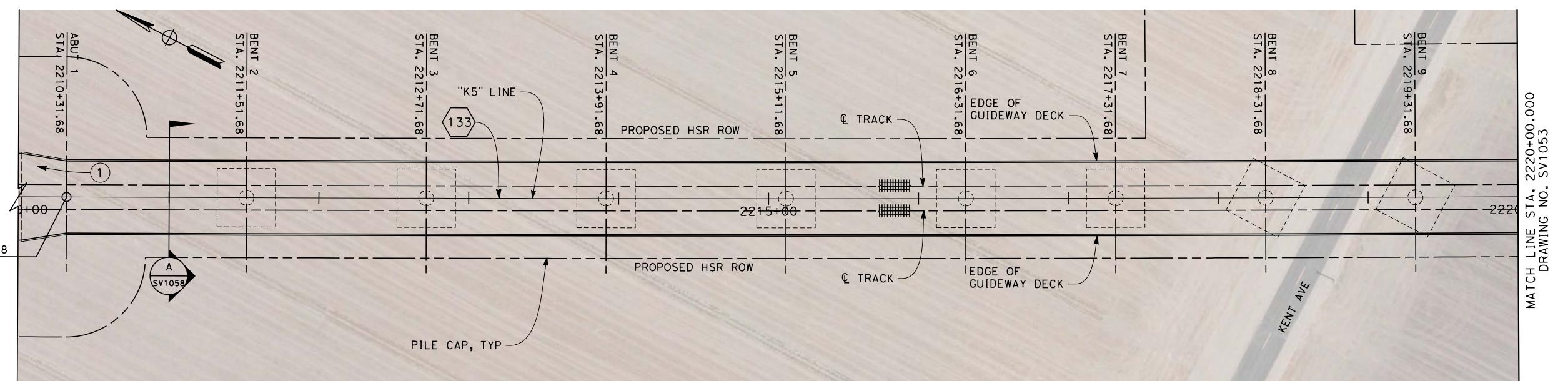
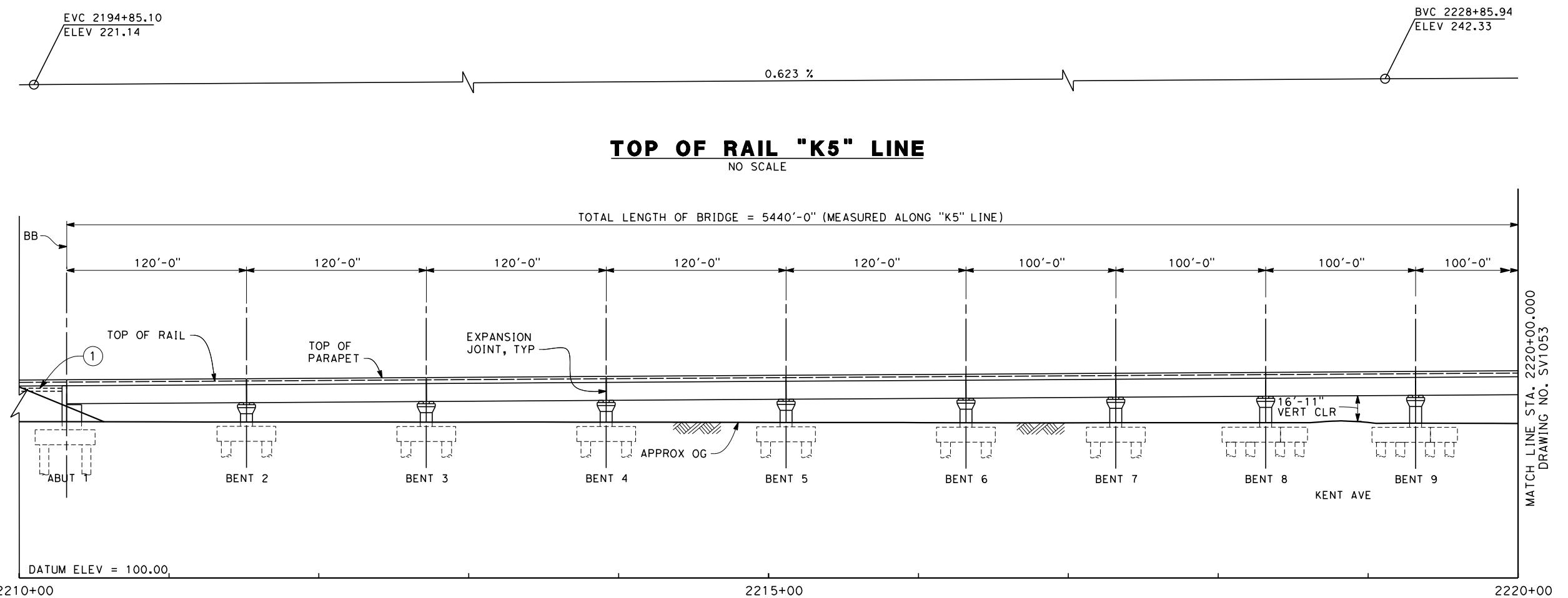
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
BNSF VIADUCT  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1050  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 8



SCALE 1" = 40'

ES  
NOT ALL PILES SHOWN  
  
LE LENGTH TO BE  
TERMINED  
  
UPERSTRUCTURE CONSTRUCTION, UON  
MIPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST  
IN-SITU  
TEEL TRUSS - INSITU, SLID  
OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND  
INSITU SLAB  
  
ILITY LOCATIONS TO BE  
TERMINED  
  
CESS STAIRWAYS ARE  
ROVIDED AT SYSTEMS SITES  
(APPROX. 2.5 MILE INTERVALS).  
ADDER ACCESS TO VIADUCTS IS  
ROVIDED AT 2500 FT INTERVALS  
TH ACCESS ROAD AND TURNING  
RCLE WHERE NECESSARY.

## LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

## CURVE DATA



R = 100000.00'  
Δ = 15° 08' 39.6"  
T = 13293.4'  
L = 26431.8'

A horizontal number line with tick marks every 20 units, labeled -40, 0, 40, and 80. A vertical tick mark is placed halfway between 0 and 40, labeled  $|t|=40$ .

DESIGNED M. F.
DRAWN BY F. PA
CHECKED A. AR
IN CHARGE R. CO
DATE 12

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



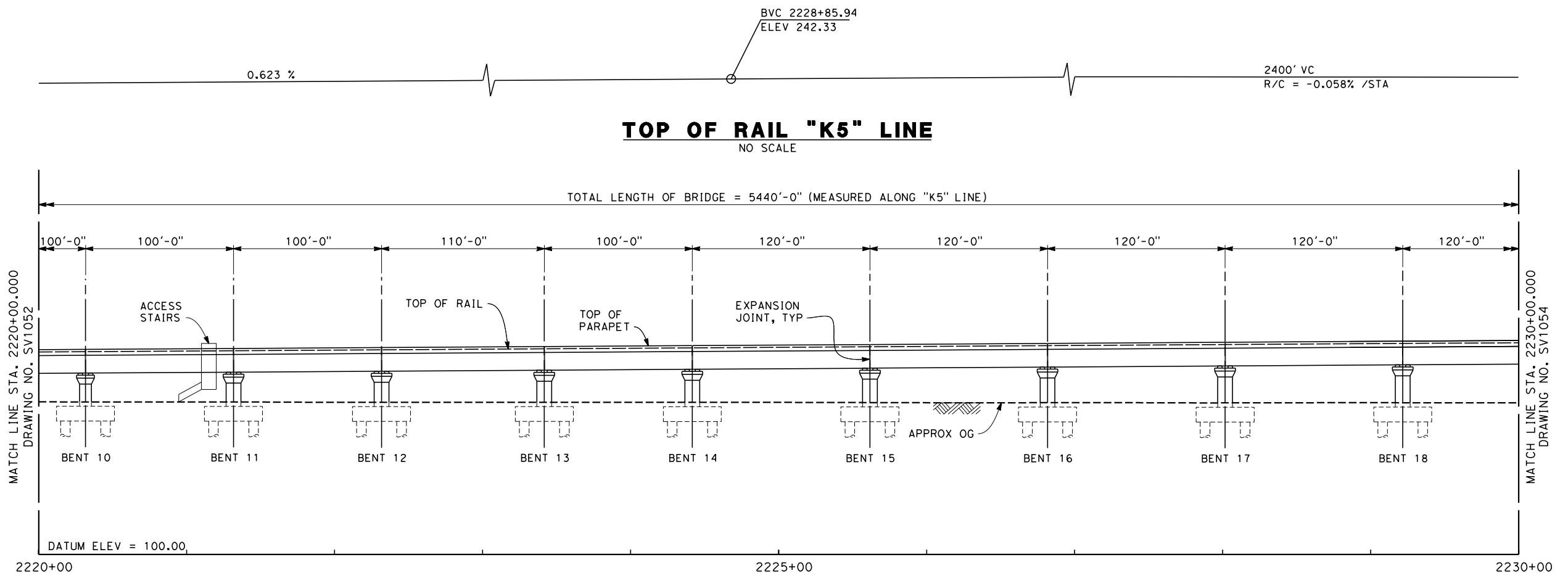
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K5  
BNSF VIADUCT  
PLAN AND ELEVATION**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV1052
SCALE	AS SHOWN
SHEET NO.	2 OF 8

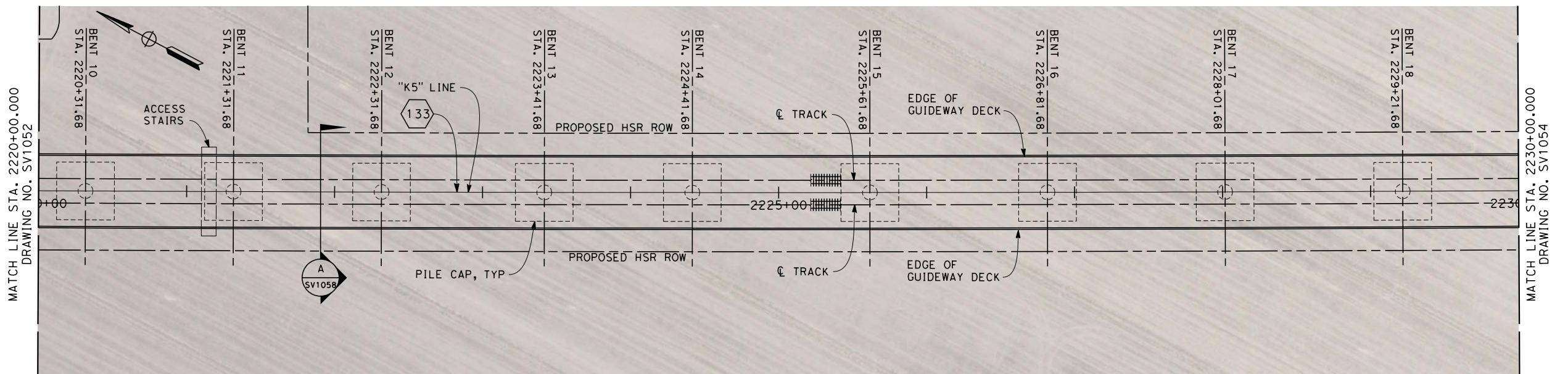
**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



2220+00 2225+00 2230+00

**ELEVATION**  
SCALE 1" = 40'

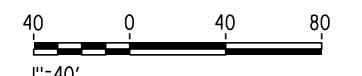


**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

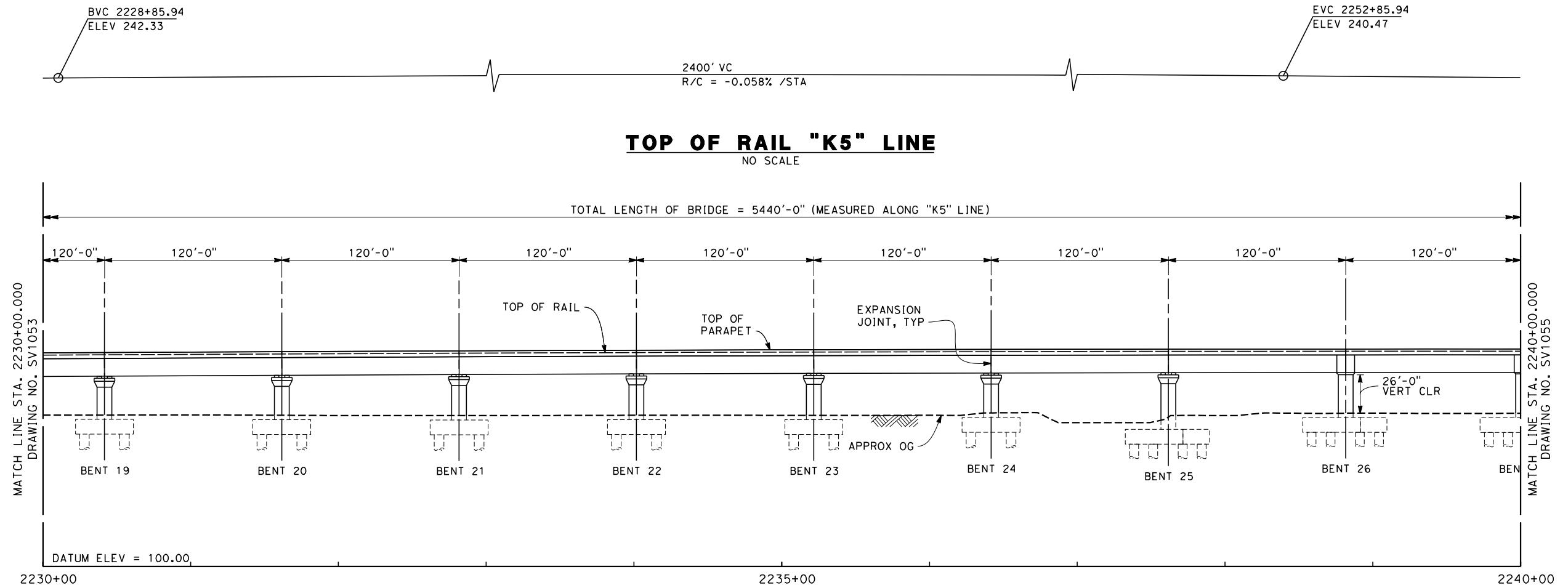
**CURVE DATA**

133  
R = 100000.00'  
Δ = 15° 08' 39.6"  
T = 13293.4'  
L = 26431.8'



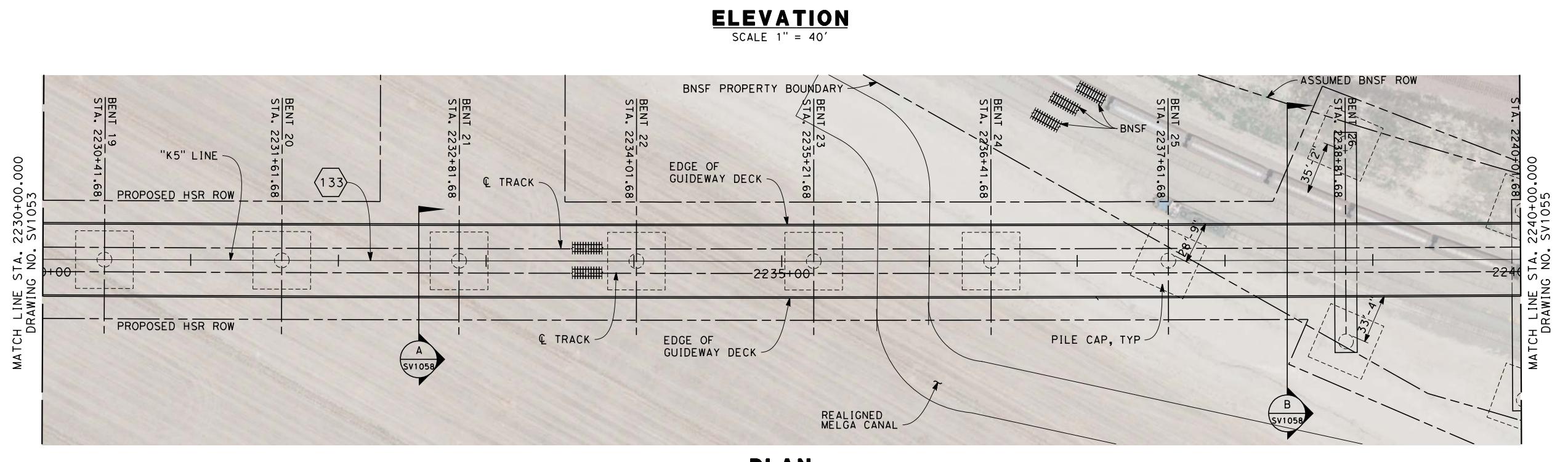
**PLAN**  
SCALE 1" = 40'

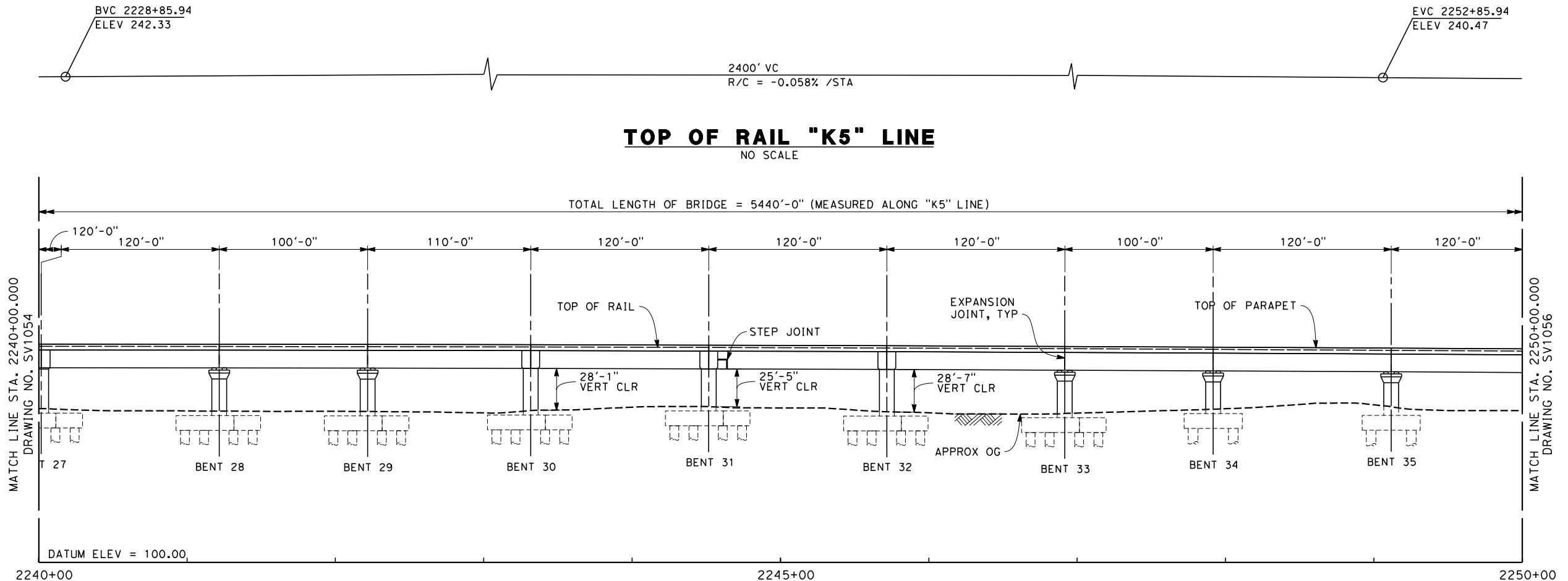
DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K5 BNSF VIADUCT PLAN AND ELEVATION	DRAWING NO. SV1053
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SCALE AS SHOWN
IN CHARGE R. COFFIN				
DATE 12/31/13				SHEET NO. 3 OF 8
REV	DATE	BY	CHK	APP
				DESCRIPTION



**NOTES**

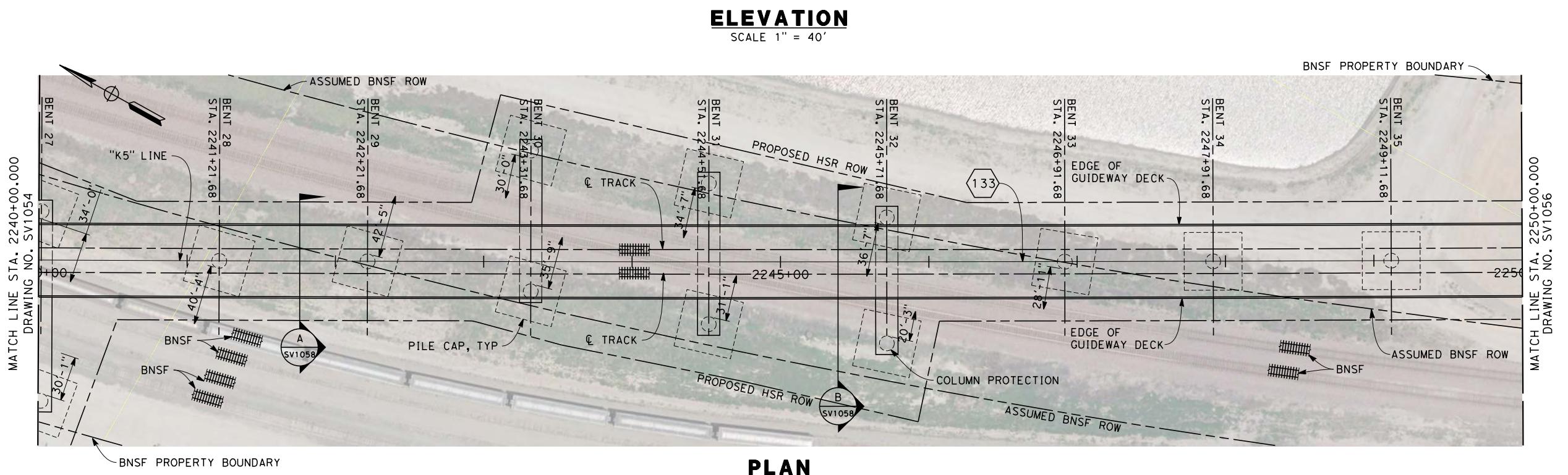
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.





NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPM  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

 133

R = 100000.00'

$\Delta$  =  $15^\circ 08' 39.6''$

T = 13293.4'

L = 26431.8'

DESIGNED
M. F.
DRAWN BY
F. PA
CHECKED
A. AR
IN CHARGE
R. CO
DATE
12

**RECORD SET 15  
DESIGN SUBMISSION  
NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

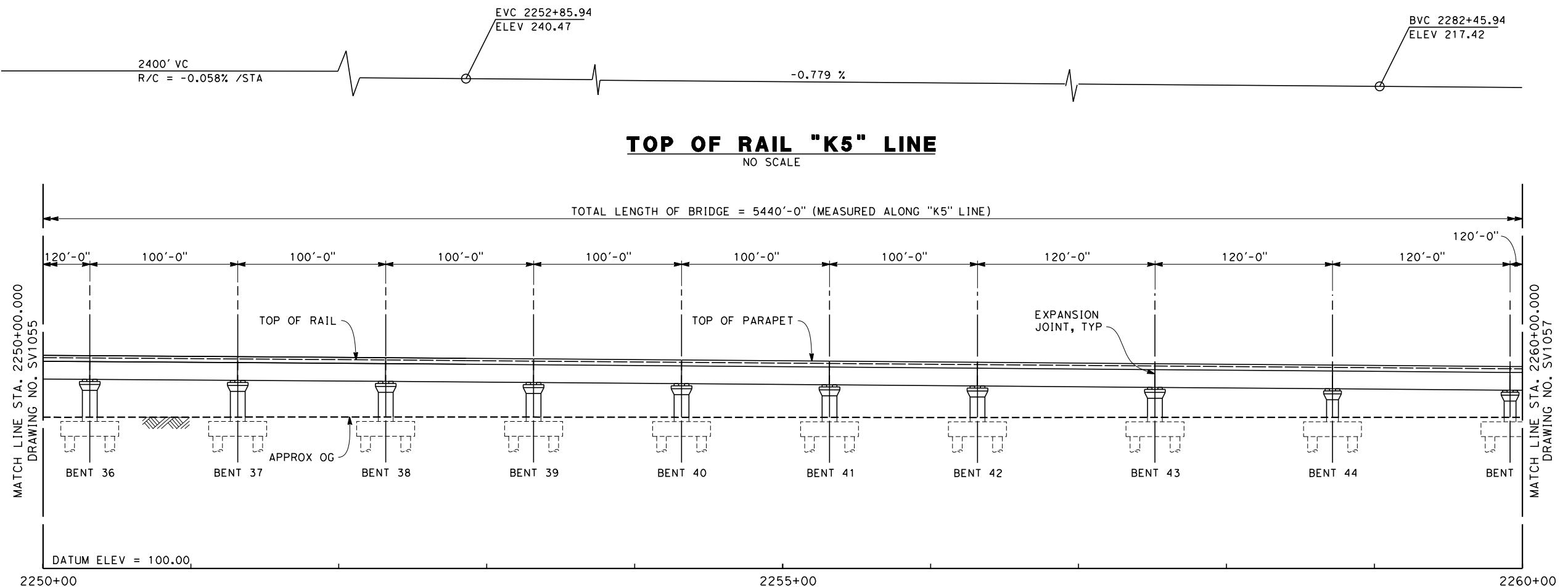
**KAWeah SUBSECTION**

**ALIGNMENT K5**

**BNSF VIADUCT**

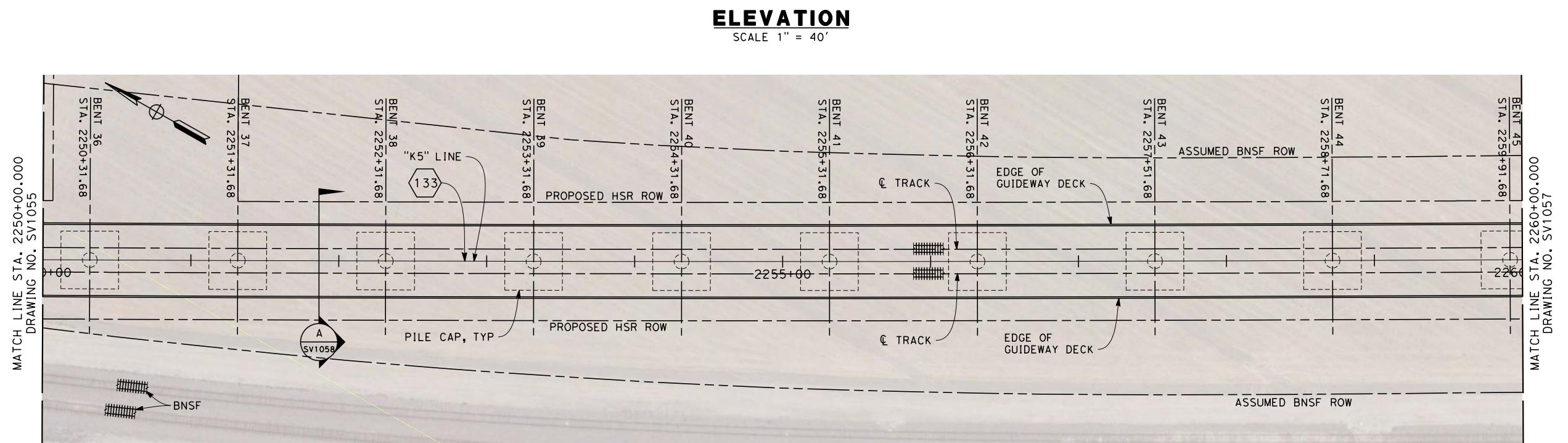
**PLAN AND ELEVATION**

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1055  
SCALE  
AS SHOWN  
HEET NO.  
5 OF 8



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPML  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA



R = 100000.00'

$\Delta$  =  $15^{\circ} 08' 39.6''$

T = 13293.4'

L = 26431.8'

P

DESIGNED  
M. F.  
DRAWN BY  
F. PA  
CHECKED  
A. AR  
IN CHARGE  
R. CO  
DATE 12

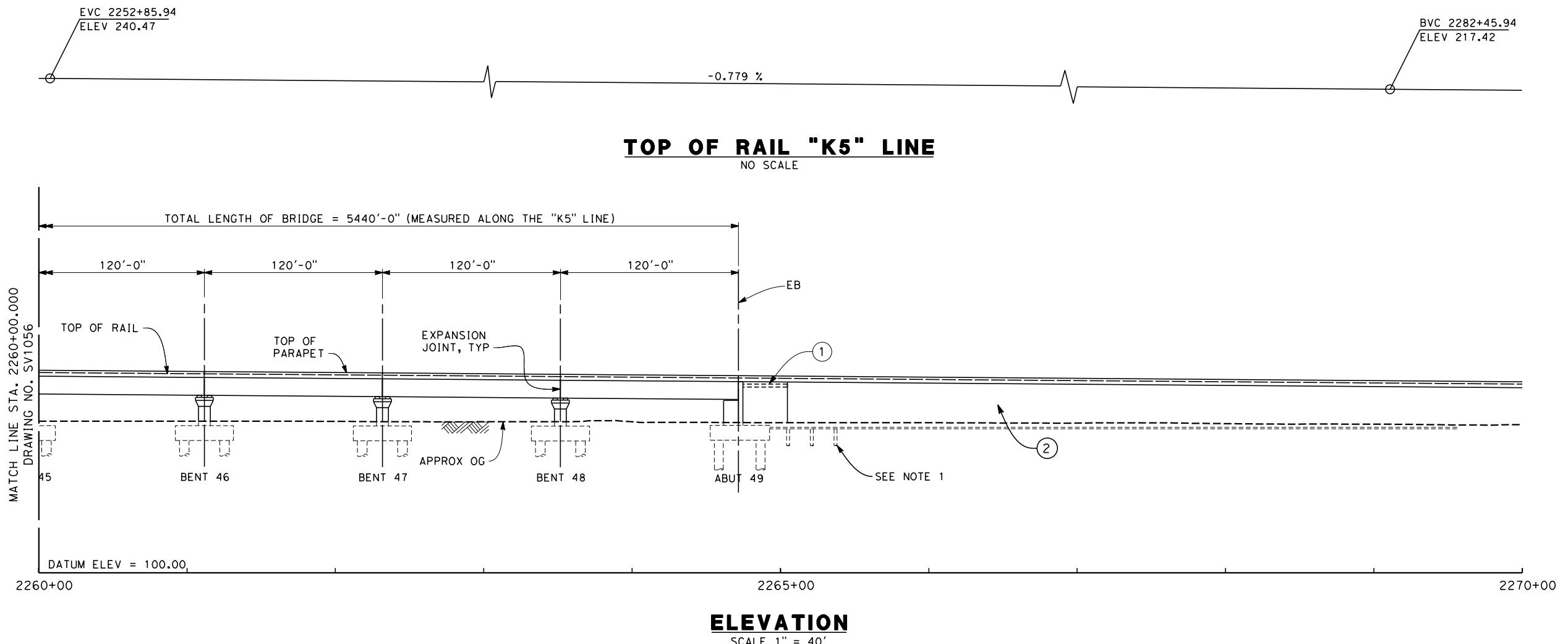
RECORD SET 18  
DESIGN SUBMISSION  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

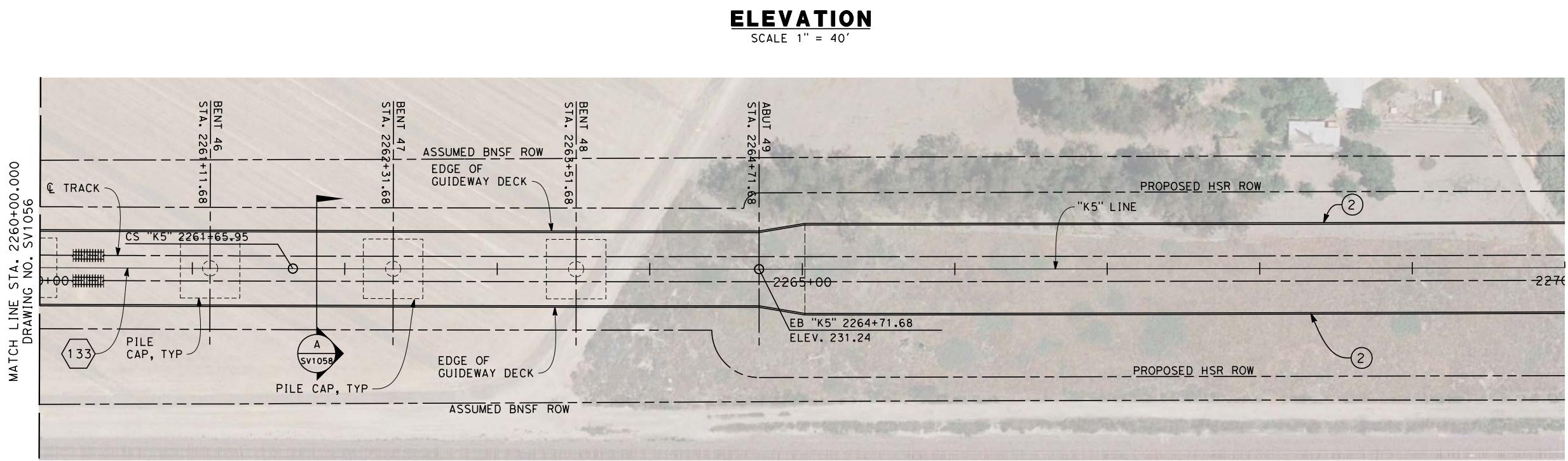
**KAWeah SUBSECTION**  
**ALIGNMENT K5**  
**BNSF VIADUCT**  
**PLAN AND ELEVATION**

CONTRACT NO.	HSR 06-0003
DRAWING NO.	SV1056
SCALE	AS SHOWN
SHEET NO.	6 OF 8



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST  
IN-SITU  
STEEL TRUSS - INSITU, SLID  
OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND  
INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
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**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

**CURVE DATA**



R = 100000.00'

Δ = 15° 08' 39.6"

T = 13293.4'

L = 26431.8'



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

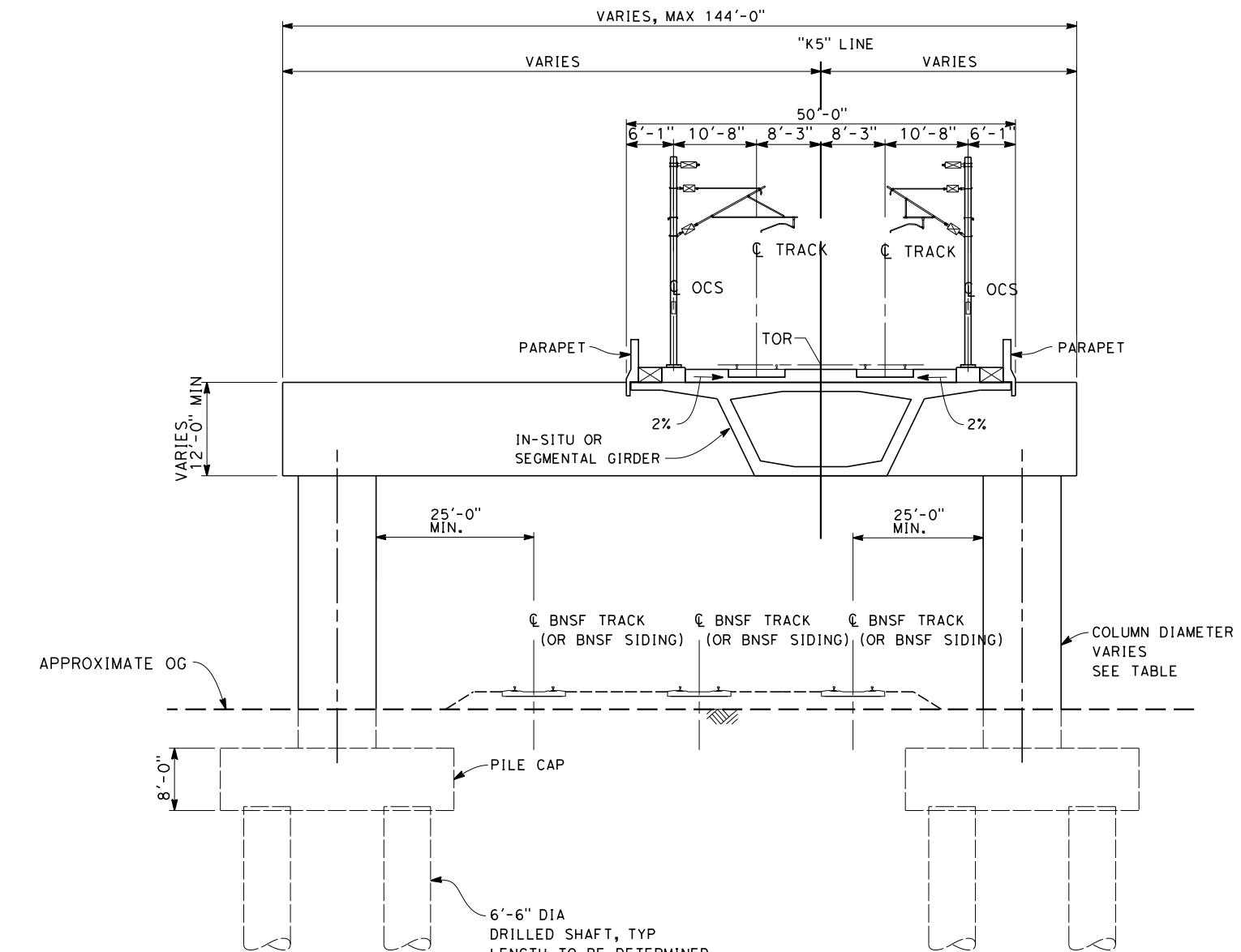
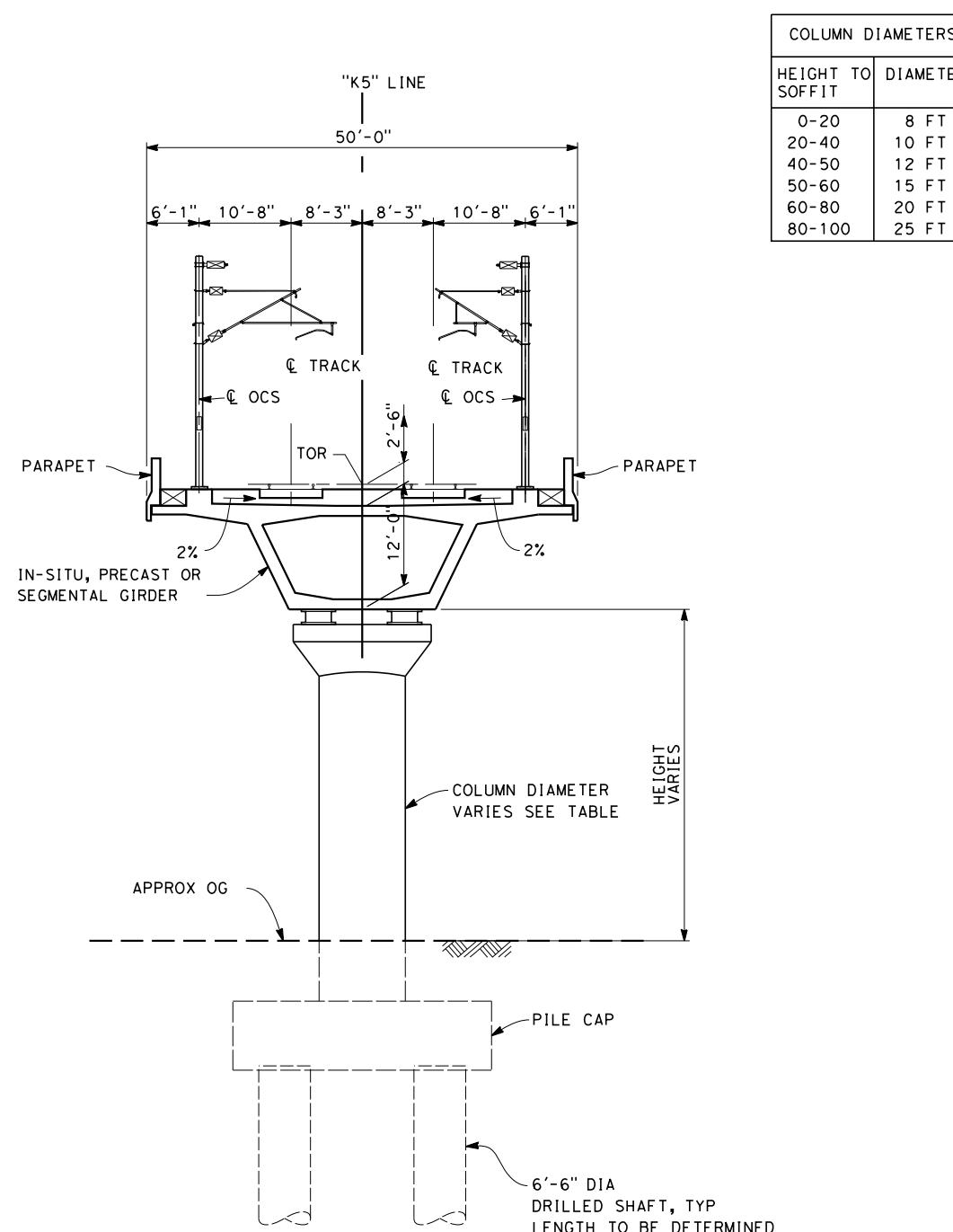
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
BNSF VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1057  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 8



## **SECTION A**

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SCALE: 1" = 10

STA 2210+32 THROUGH 2238+82  
STA 2240+02 THROUGH 2243+32  
STA 2245+72 THROUGH 2264+72

## **SECTION B**

SCALE: 1" = 10'

STA 2238+82 THROUGH 2240+02  
STA 2243+32 THROUGH 2245+72



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K5  
BNSF VIADUCT  
TYPICAL SECTIONS**

						DESIGNED BY M. FISHER	RECORD SET 1 DESIGN SUBMISSION
						DRAWN BY F. PALERMO	
						CHECKED BY A. ARMSTRONG	
						IN CHARGE R. COFFIN	
						DATE 12/31/13	NOT FOR CONSTRUCTION
REV	DATE	BY	CHK	APP	DESCRIPTION		

DATE	BY	CHK	APP	DESCRIPTION	12/31/13	DESIGNED BY M. FISHER  DRAWN BY F. PALERMO  CHECKED BY A. ARMSTRONG  IN CHARGE R. COFFIN  DATE	RECORD SET 15% DESIGN SUBMISSION  - NOT FOR CONSTRUCTION			<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</b> KAWeah SUBSECTION ALIGNMENT K5 BNSF VIADuct TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003  DRAWING NO. SV1058  SCALE AS SHOWN  SHEET NO. 8 OF 8
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REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13

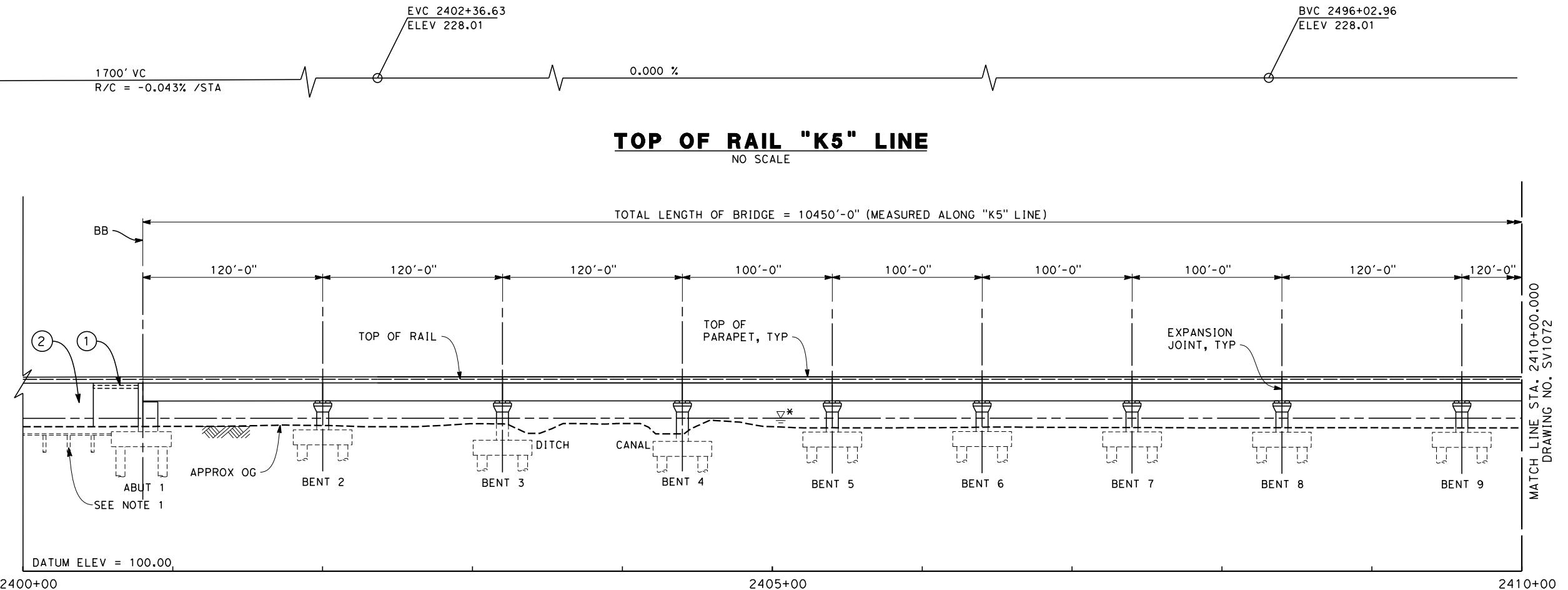
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



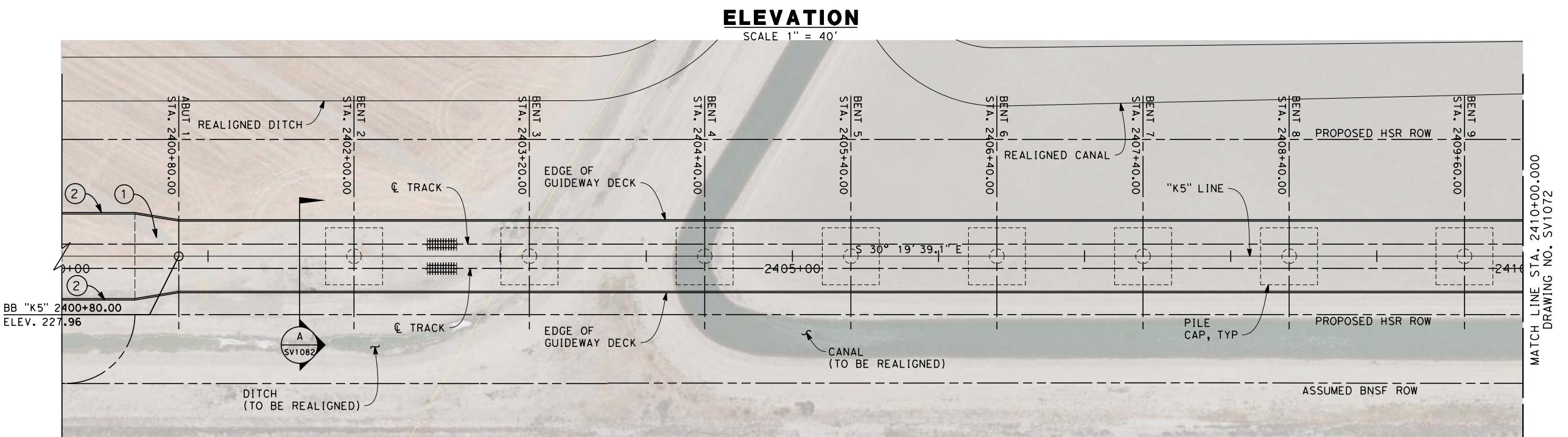
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
CROSS CREEK VIADUCT  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1070  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 14



**NOTES**

1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
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**PLAN**  
SCALE 1" = 40'



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
CROSS CREEK VIADUCT  
PLAN AND ELEVATION

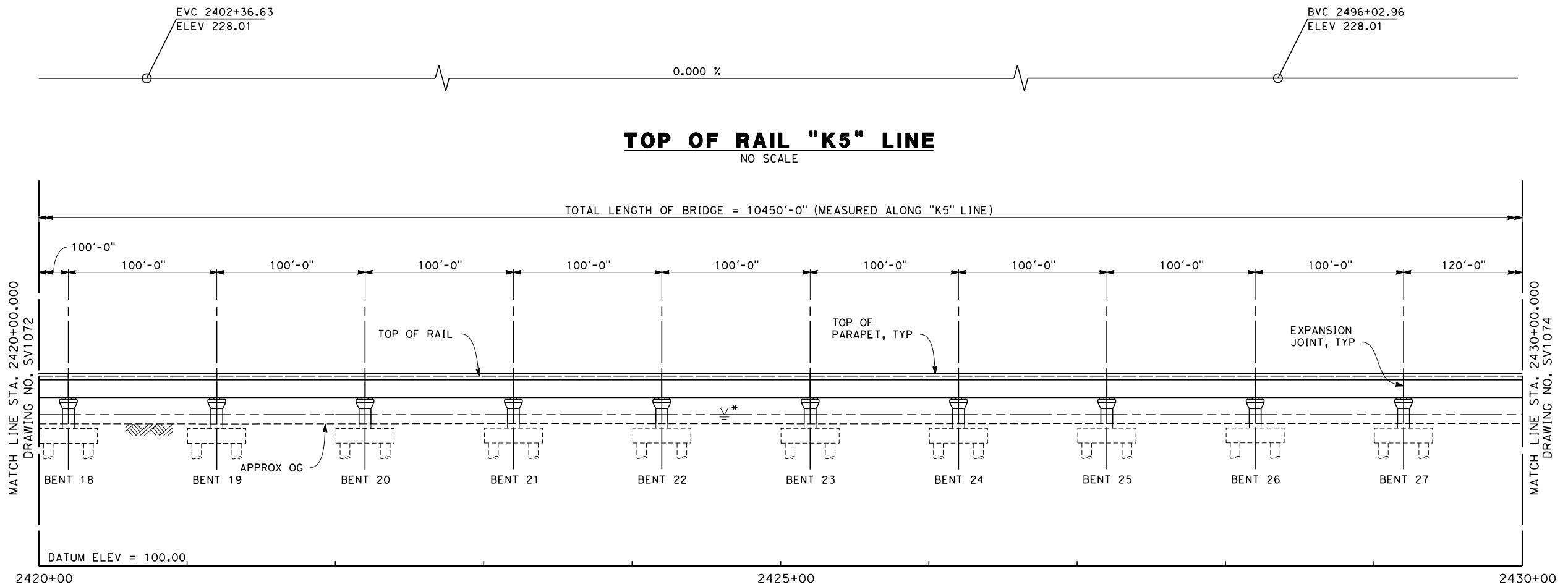
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1071  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 14

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

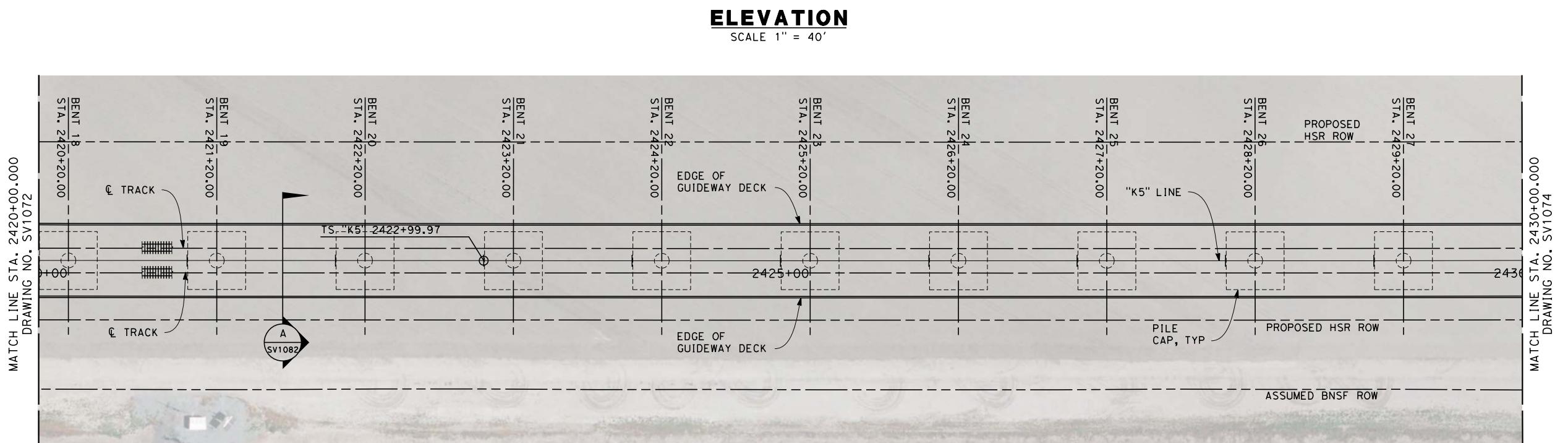
RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION





**NOTES**

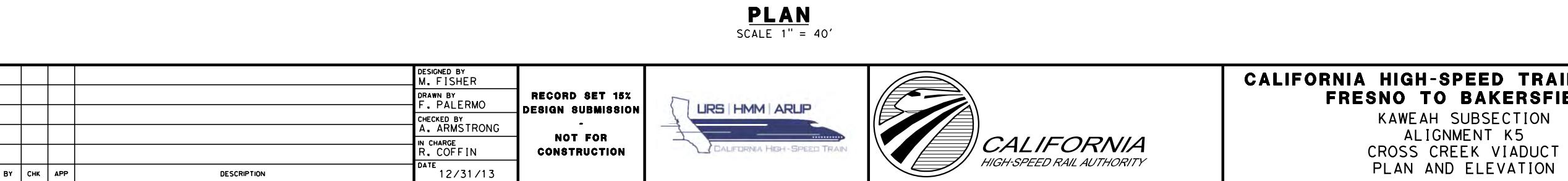
1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
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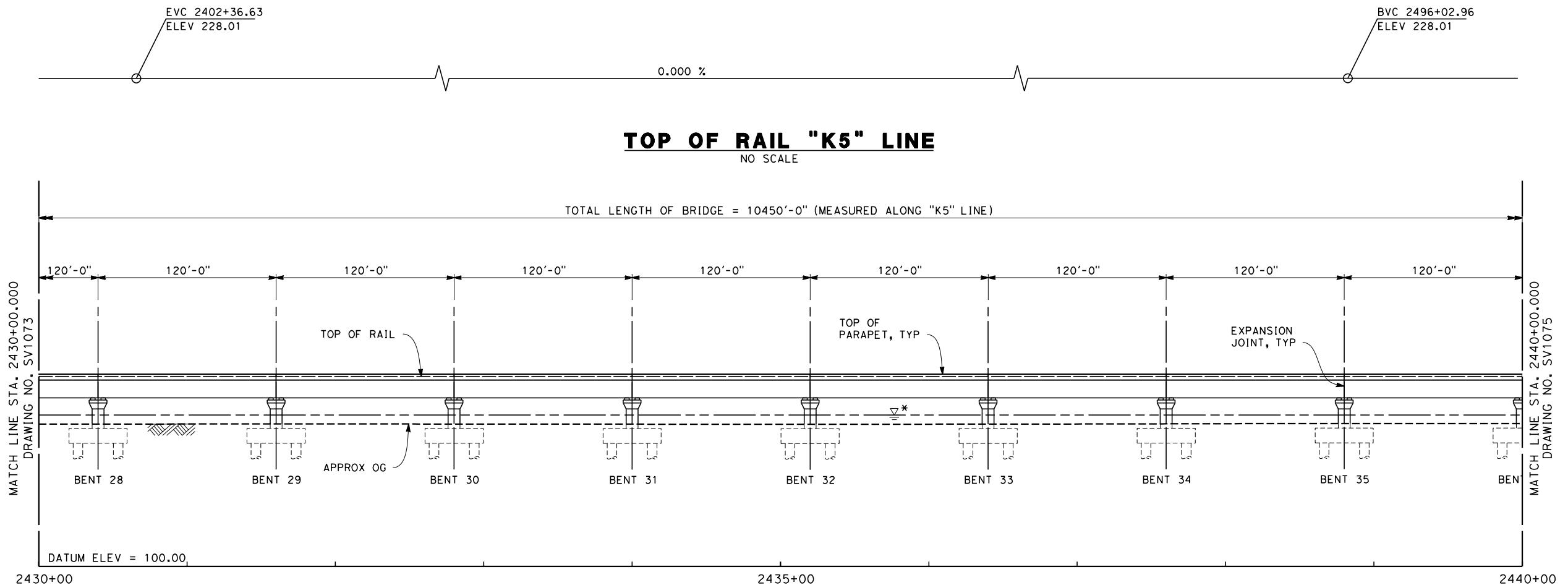


**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

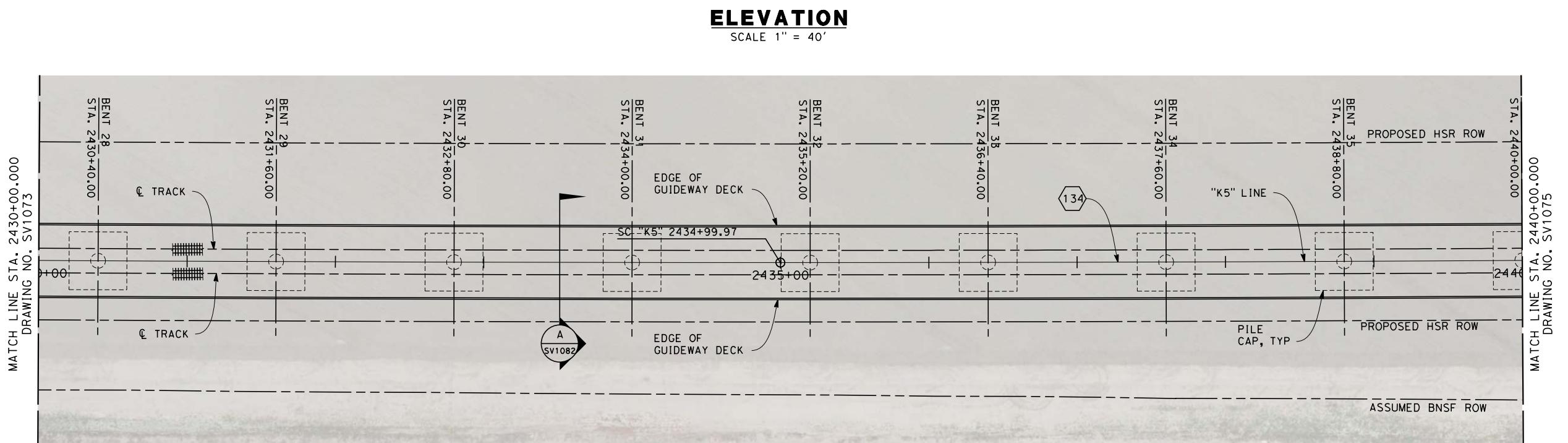
\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".





**NOTES**

1. NOT ALL FILES SHOWN
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3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
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**LEGEND:**

- 1 STRUCTURE APPROACH SLAB
- 2 RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

**CURVE DATA**



R = 85000.00'  
Δ = 0° 50' 01.6"  
T = 618.5'  
L = 1236.9'



PLAN  
SCALE 1" = 40'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

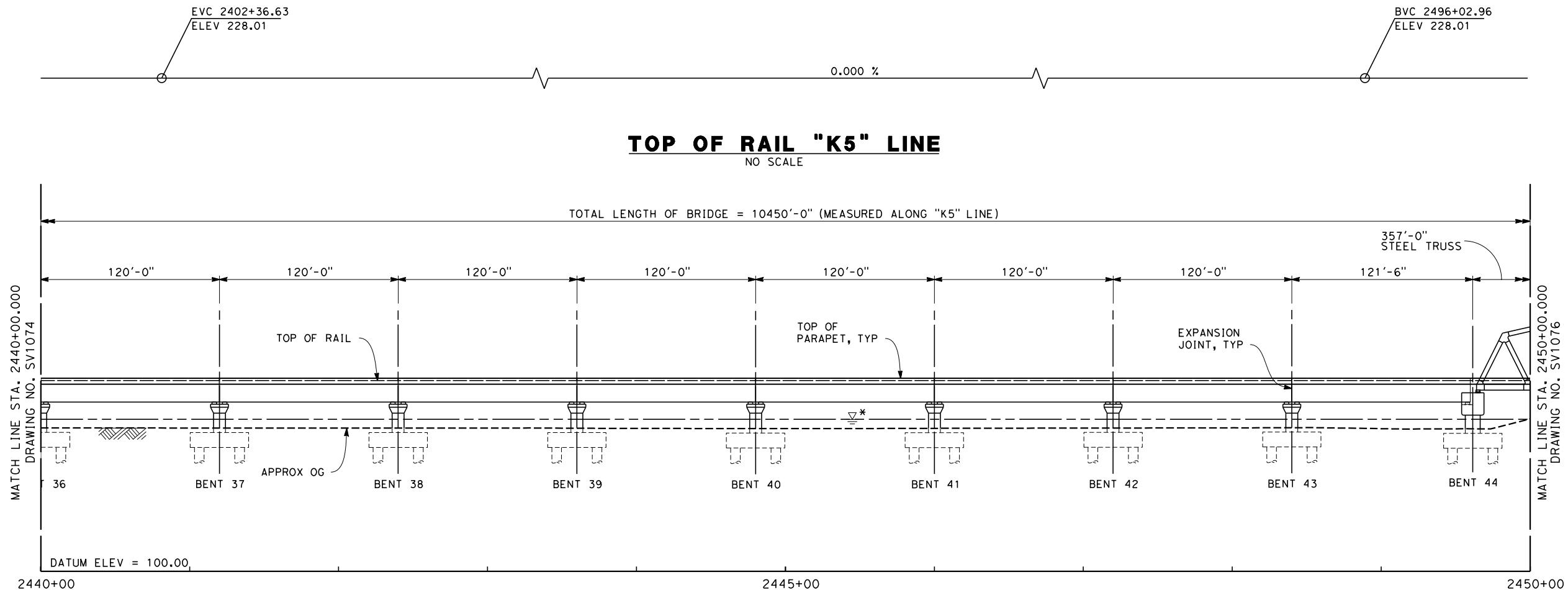
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



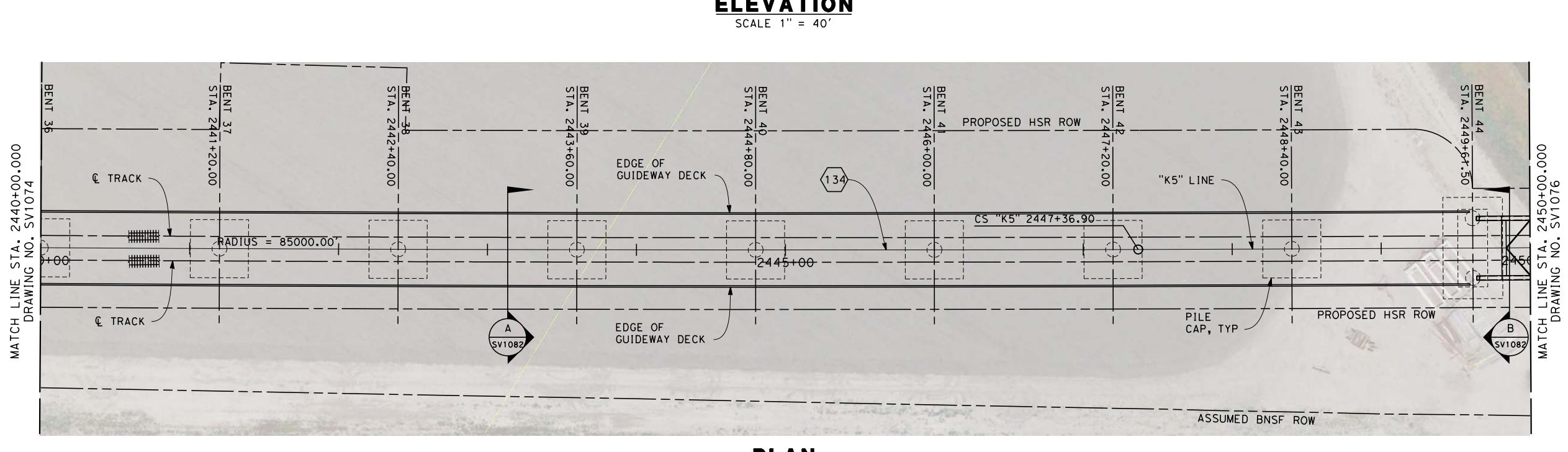
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
CROSS CREEK VIADUCT  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1074  
SCALE  
AS SHOWN  
SHEET NO.  
5 OF 14



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPM  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
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**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

CURVE DATA

134

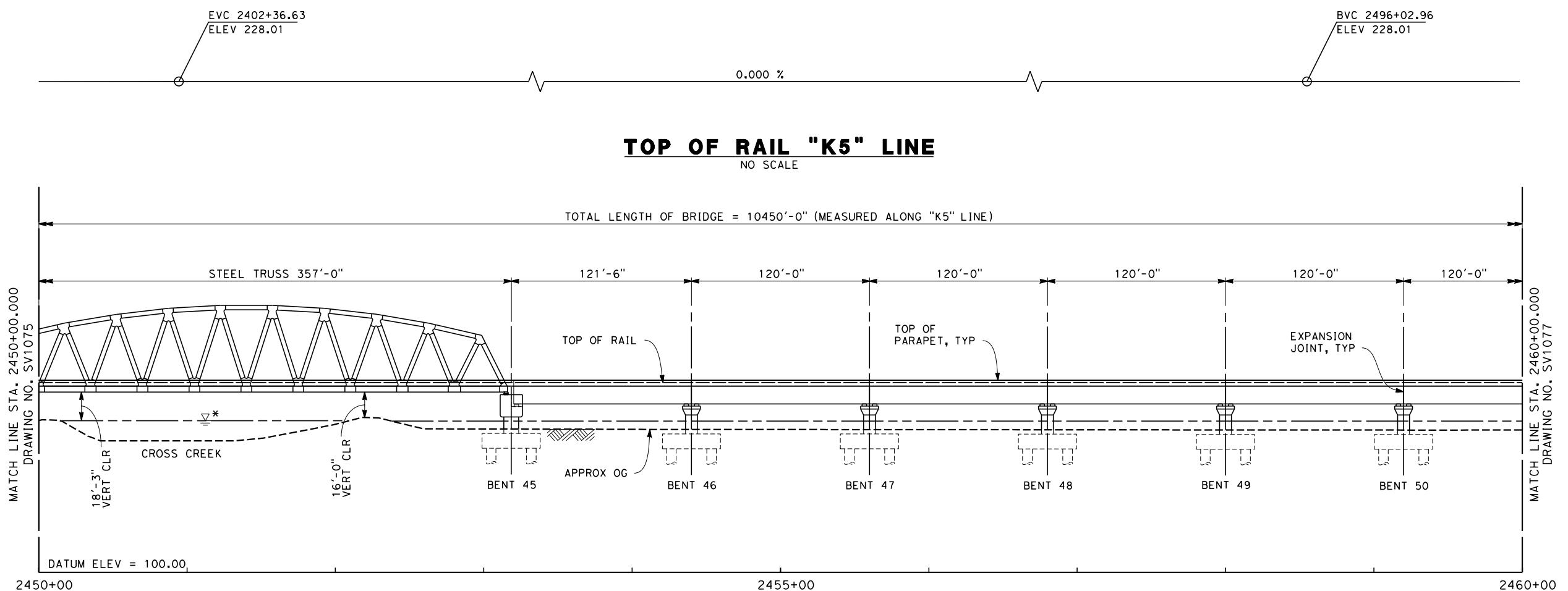
R = 85000.00'  
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T = 618.5'  
L = 1236.9'

CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
SV1075

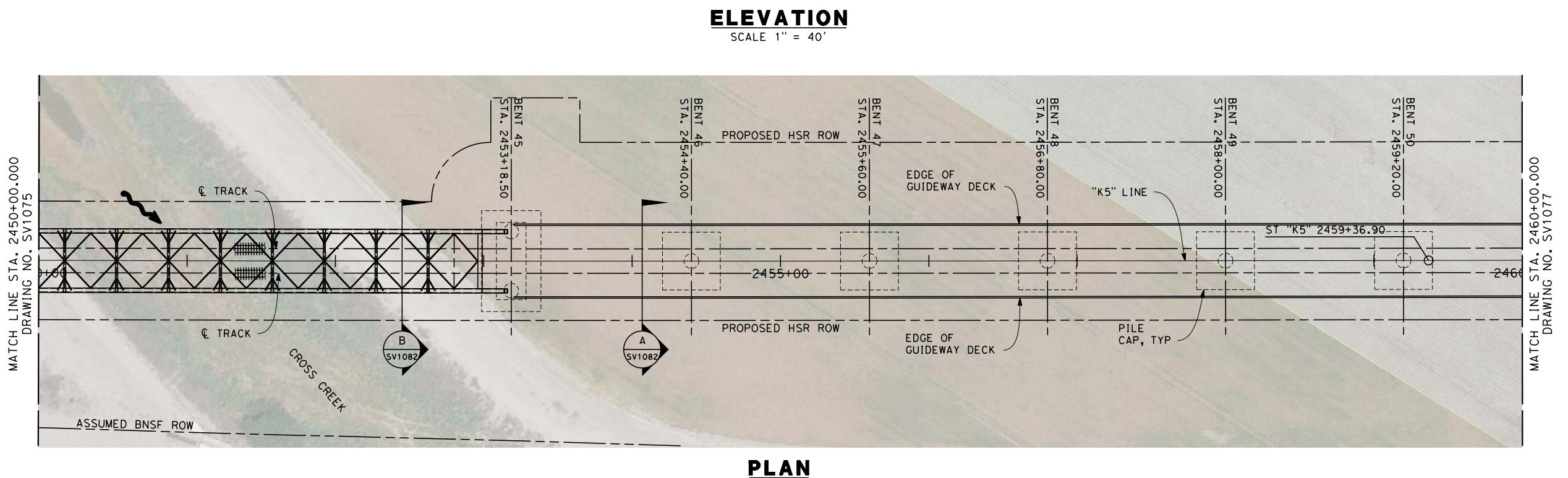
SCALE  
AS SHOWN

SHEET NO.  
6 OF 14



**NOTES**

1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
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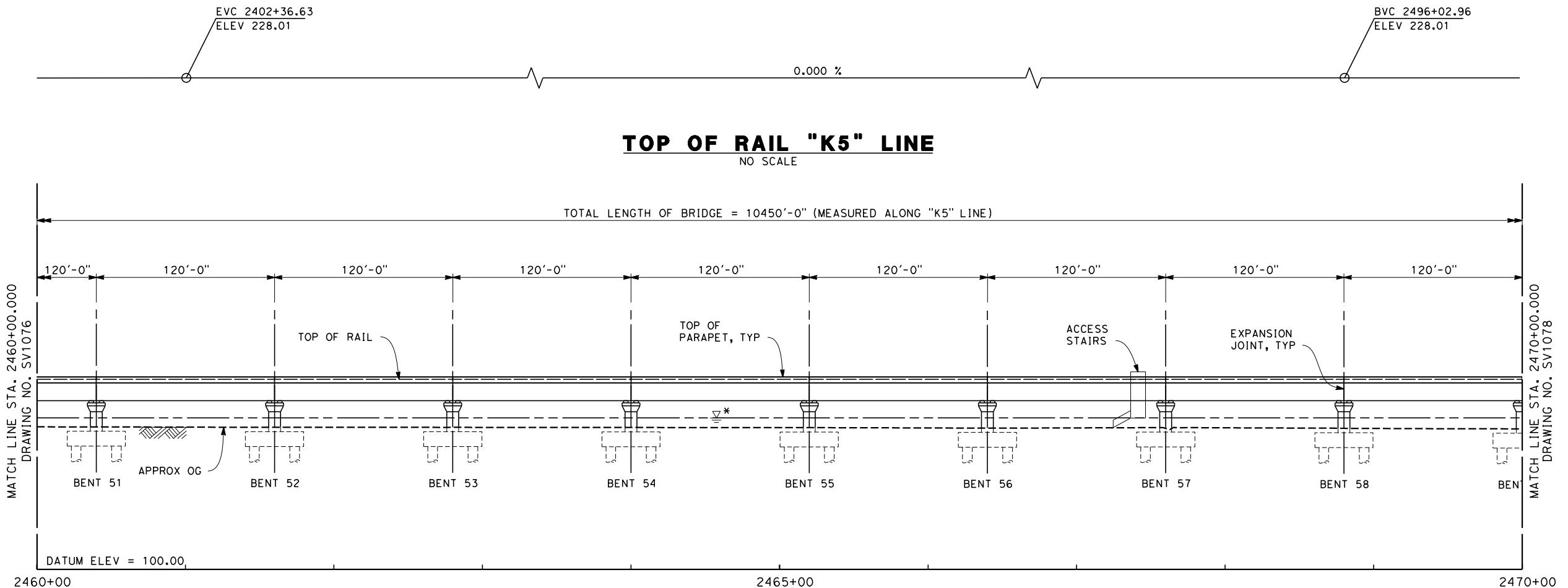
**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

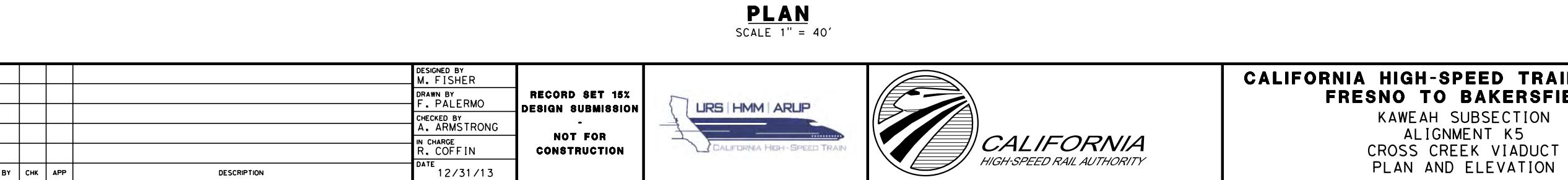
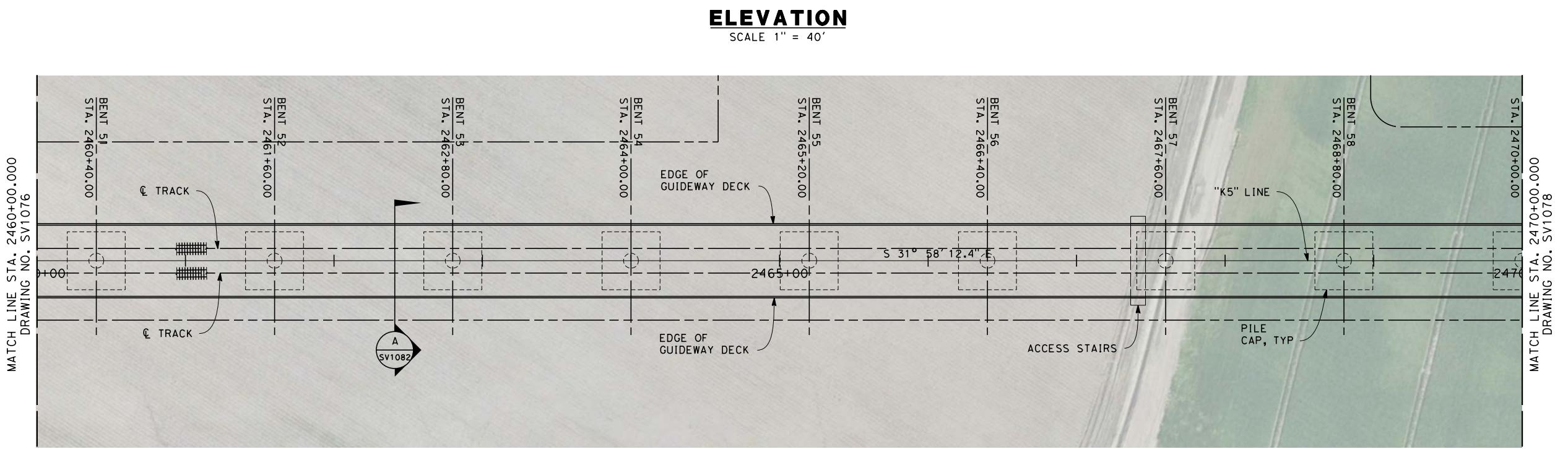
DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K5 CROSS CREEK VIADUCT PLAN AND ELEVATION	DRAWING NO. SV1076
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SCALE AS SHOWN
IN CHARGE R. COFFIN				
DATE 12/31/13				
REV	DATE	BY	CHK	APP
DESCRIPTION				

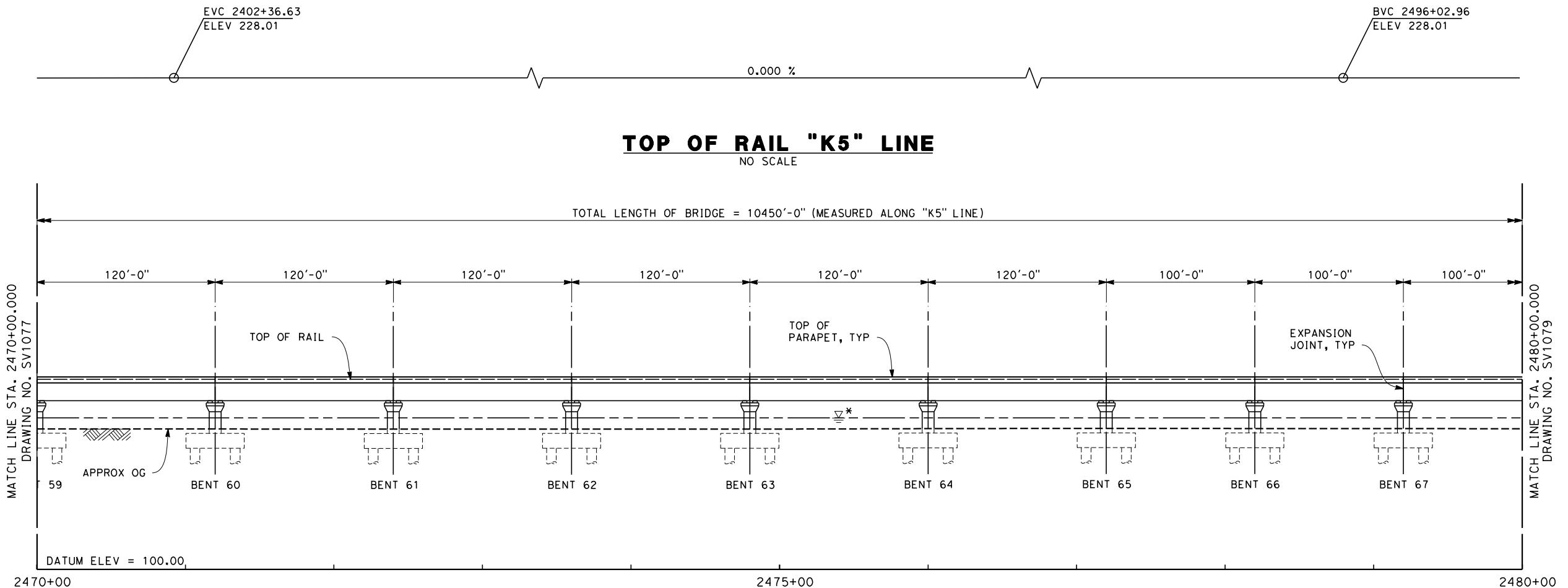
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1076  
SCALE  
AS SHOWN  
SHEET NO.  
7 OF 14



**NOTES**

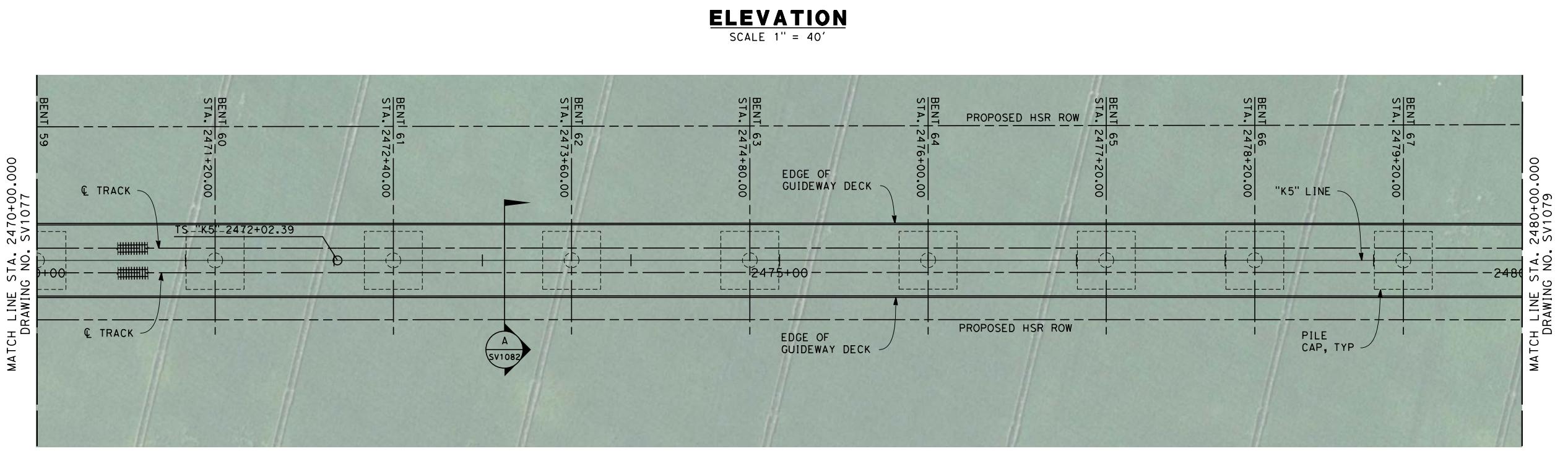
1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.





**NOTES**

1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPMS  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



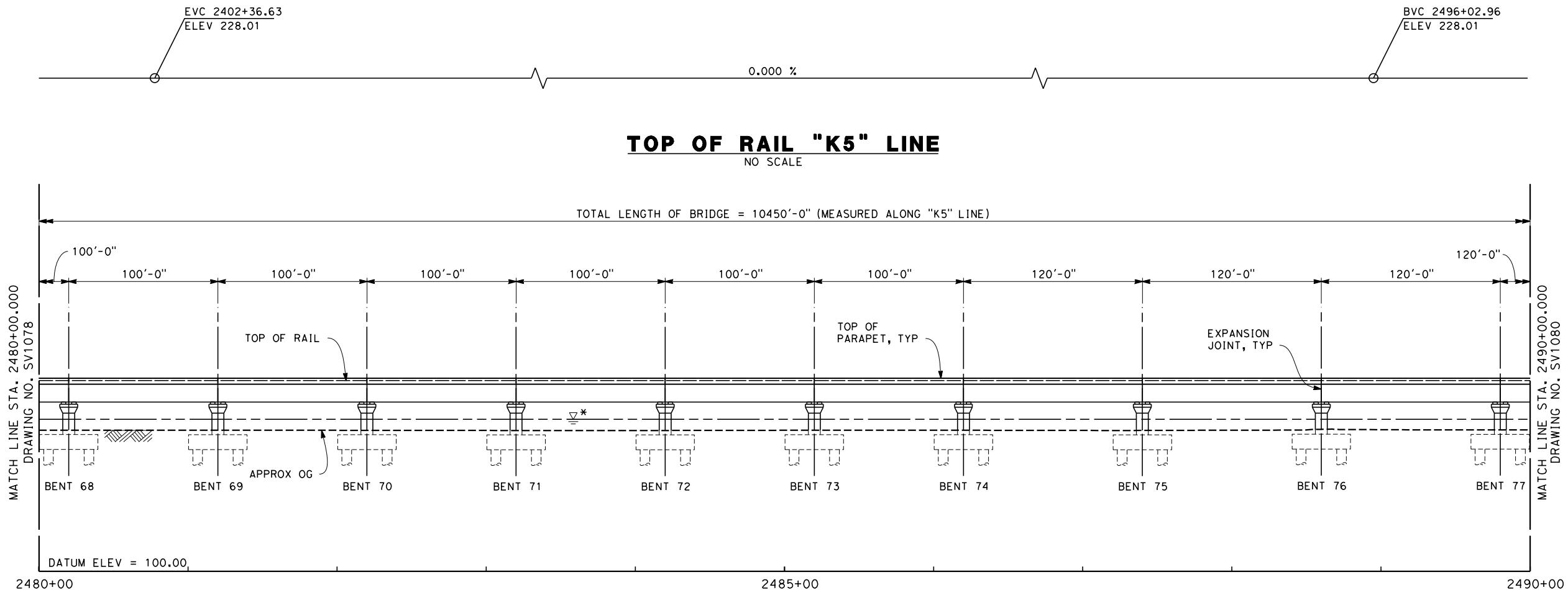
**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

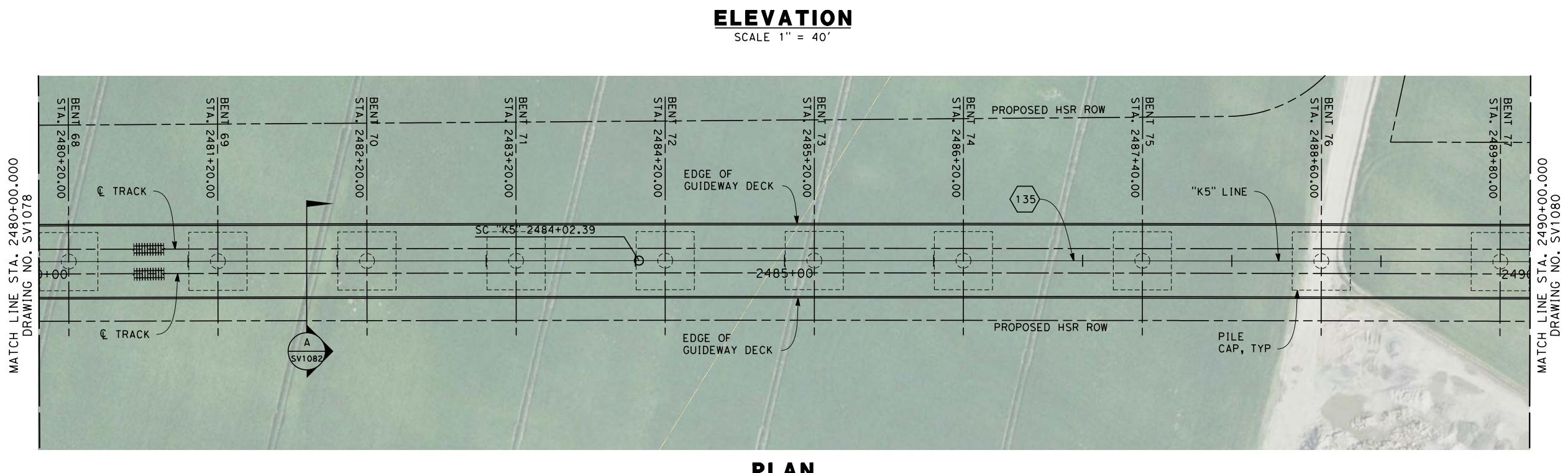
40 0 40 80  
1"=40'

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWeah SUBSECTION ALIGNMENT K5 CROSS CREEK VIADUCT PLAN AND ELEVATION	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-			DRAWING NO. SV1078
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION			SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 9 OF 14
DATE 12/31/13	DESCRIPTION			



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

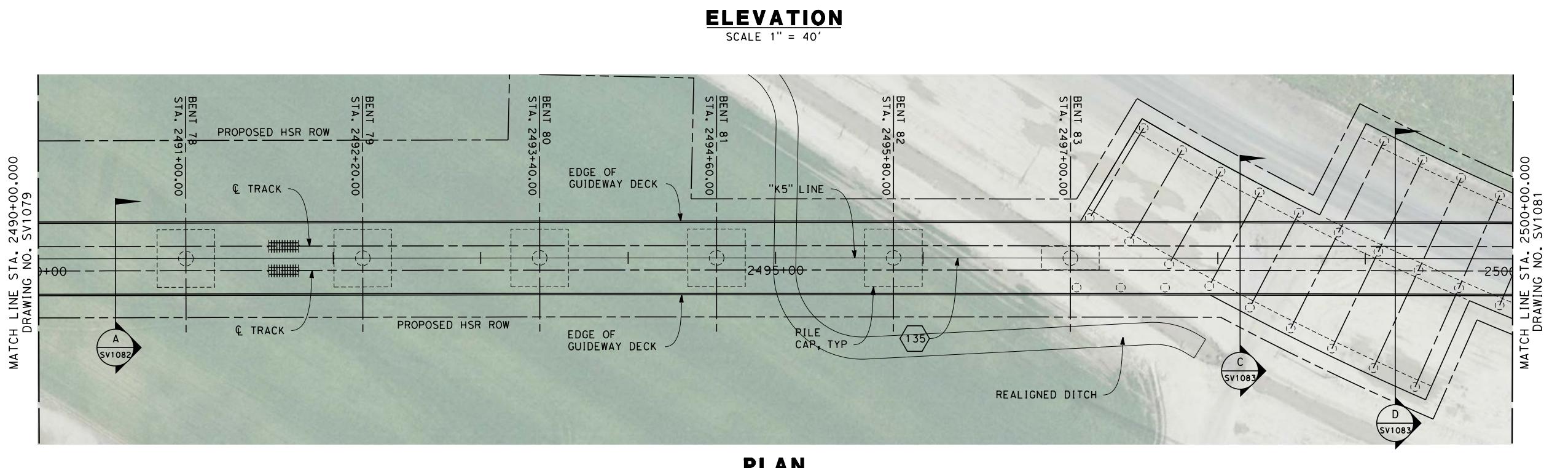
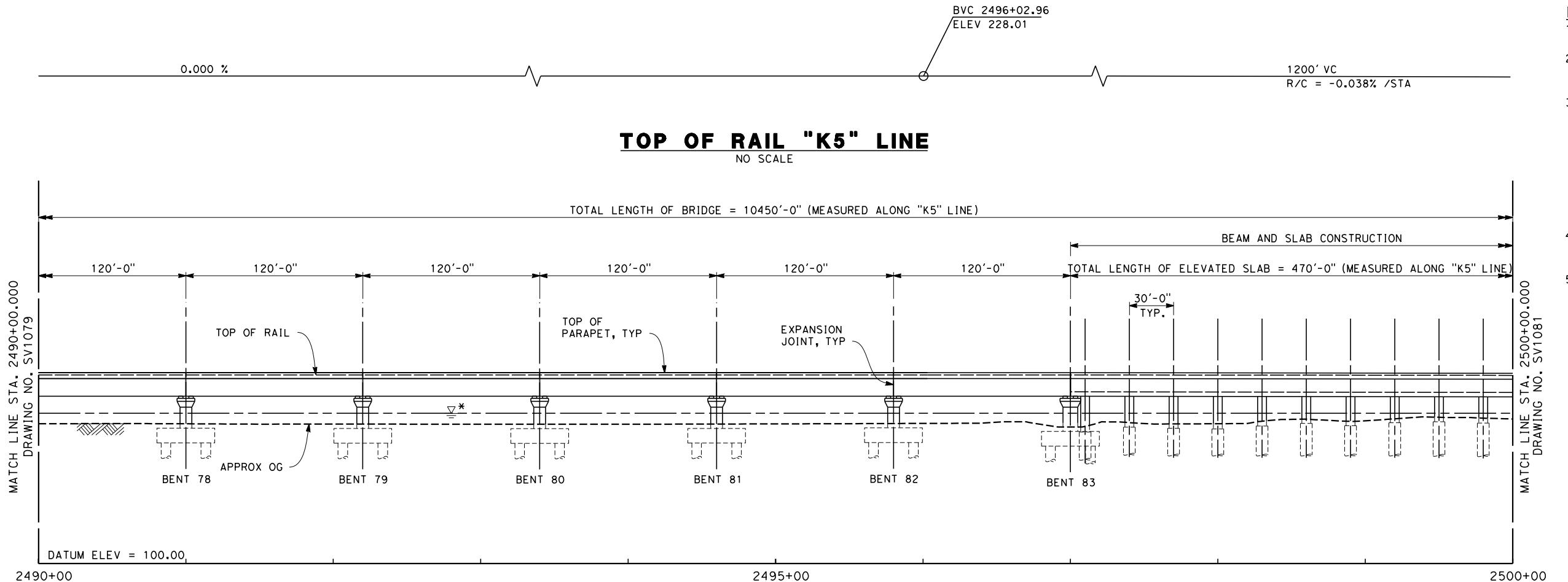
**CURVE DATA**

135  
R = 170000.00'  
Δ = 01° 14' 39.4"  
T = 1846.0'  
L = 3691.9'

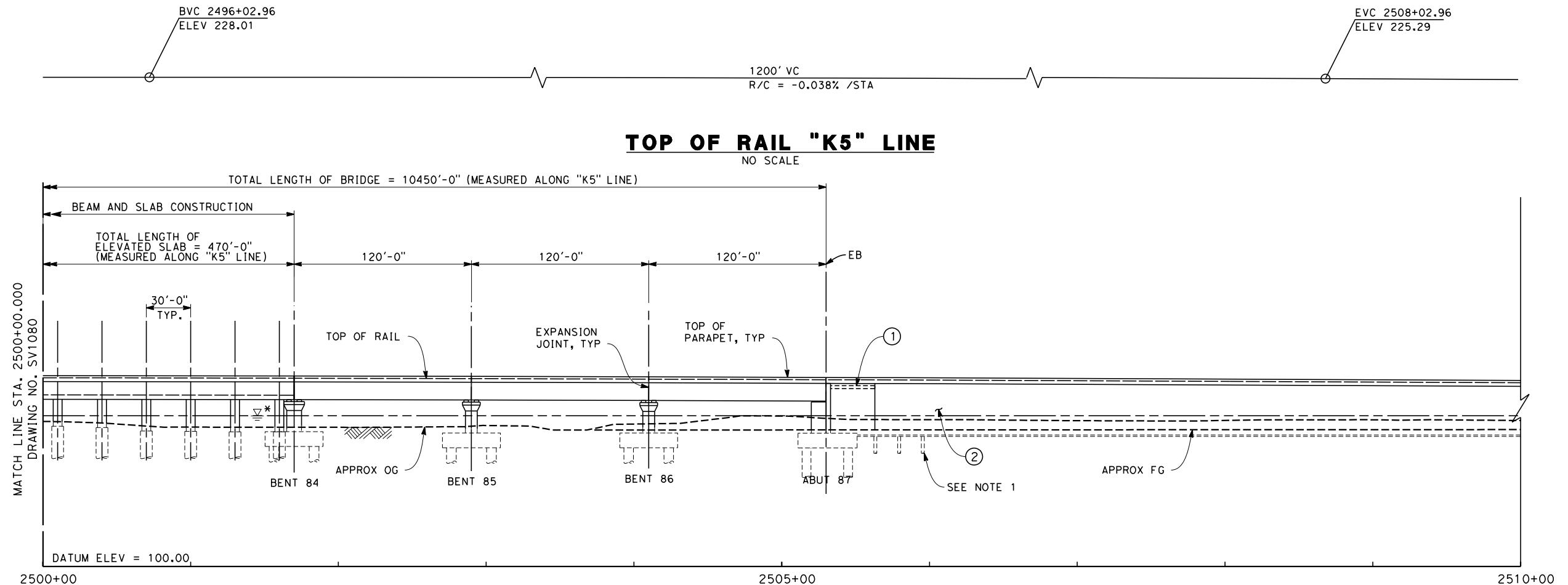
REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY M. FISHER	DRAWN BY F. PALERMO	CHECKED BY A. ARMSTRONG	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	KAWeah SUBSECTION ALIGNMENT K5 CROSS CREEK VIADUCT PLAN AND ELEVATION	CONTRACT NO. HSR 06-0003	DRAWING NO. SV1079	SCALE AS SHOWN	SHEET NO. 10 OF 14

**NOTES**

1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

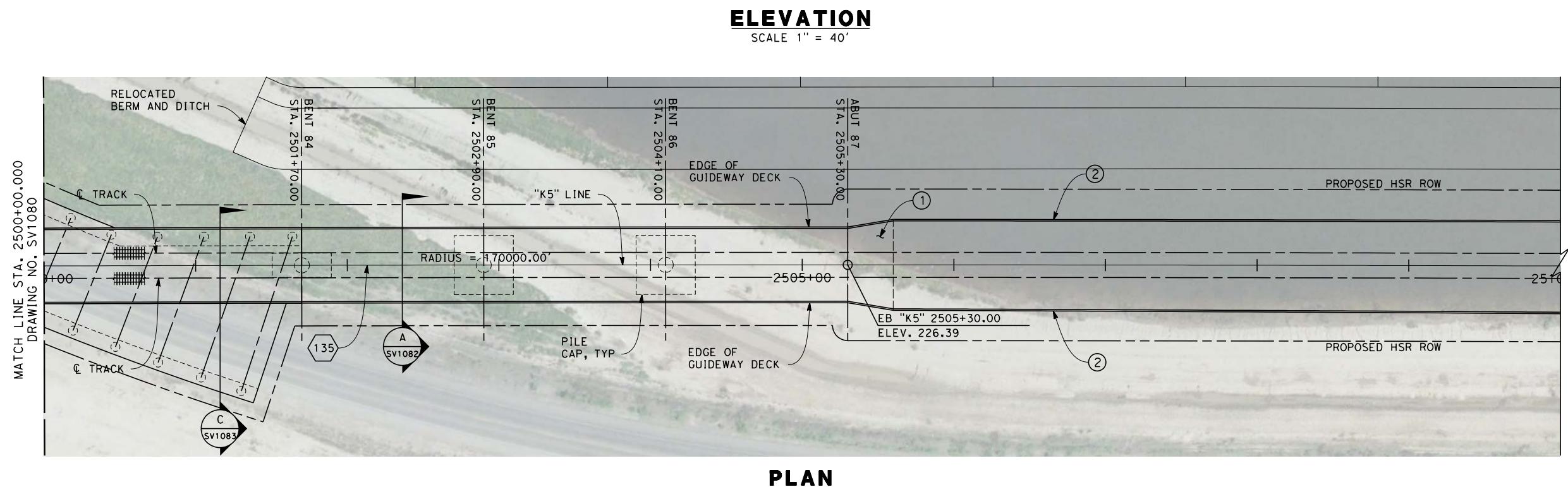


DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K5 CROSS CREEK VIADUCT PLAN AND ELEVATION	DRAWING NO. SV1080
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	SCALE AS SHOWN	SCALE AS SHOWN
IN CHARGE R. COFFIN			SHEET NO. 11 OF 14	
DATE 12/31/13	DESCRIPTION	DATE 12/31/13	REV	DATE



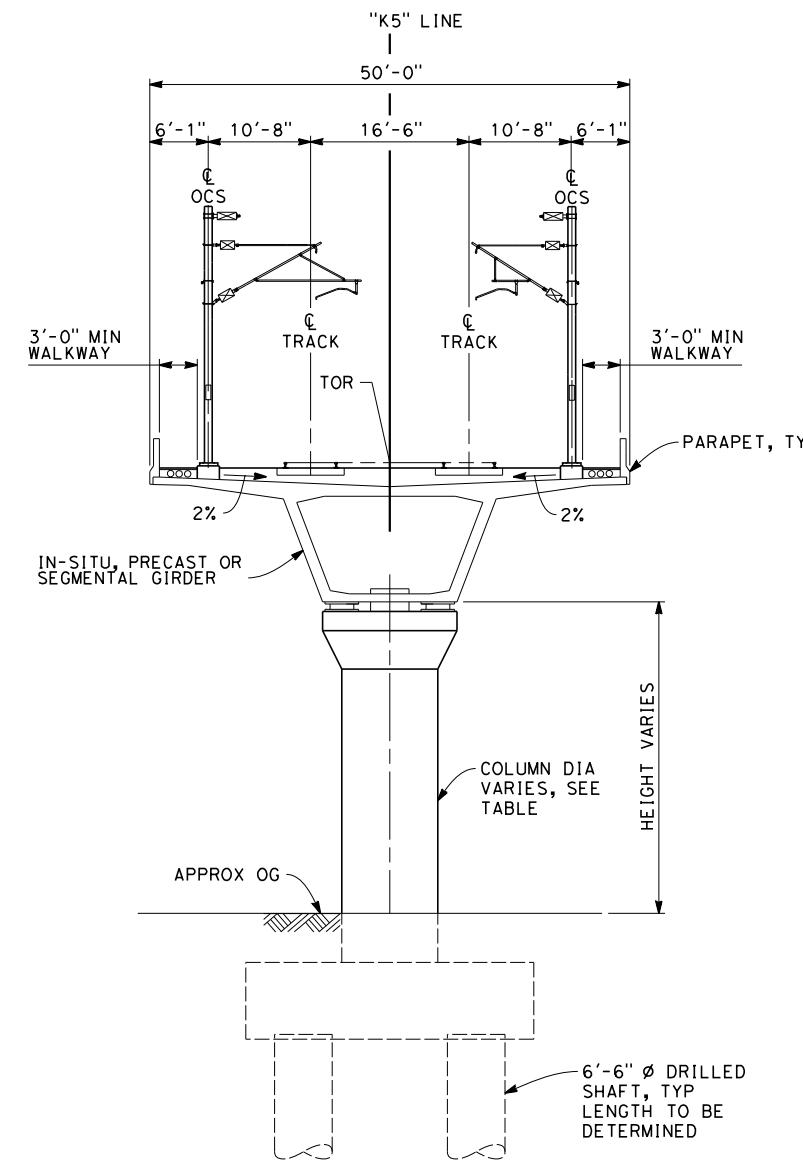
**NOTES**

1. NOT ALL FILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



40 0 40 80  
1"=40'

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K5 CROSS CREEK VIADUCT PLAN AND ELEVATION	DRAWING NO. SV1081
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 12 OF 14
REV DATE BY CHK APP	DESCRIPTION	DATE 12/31/13		

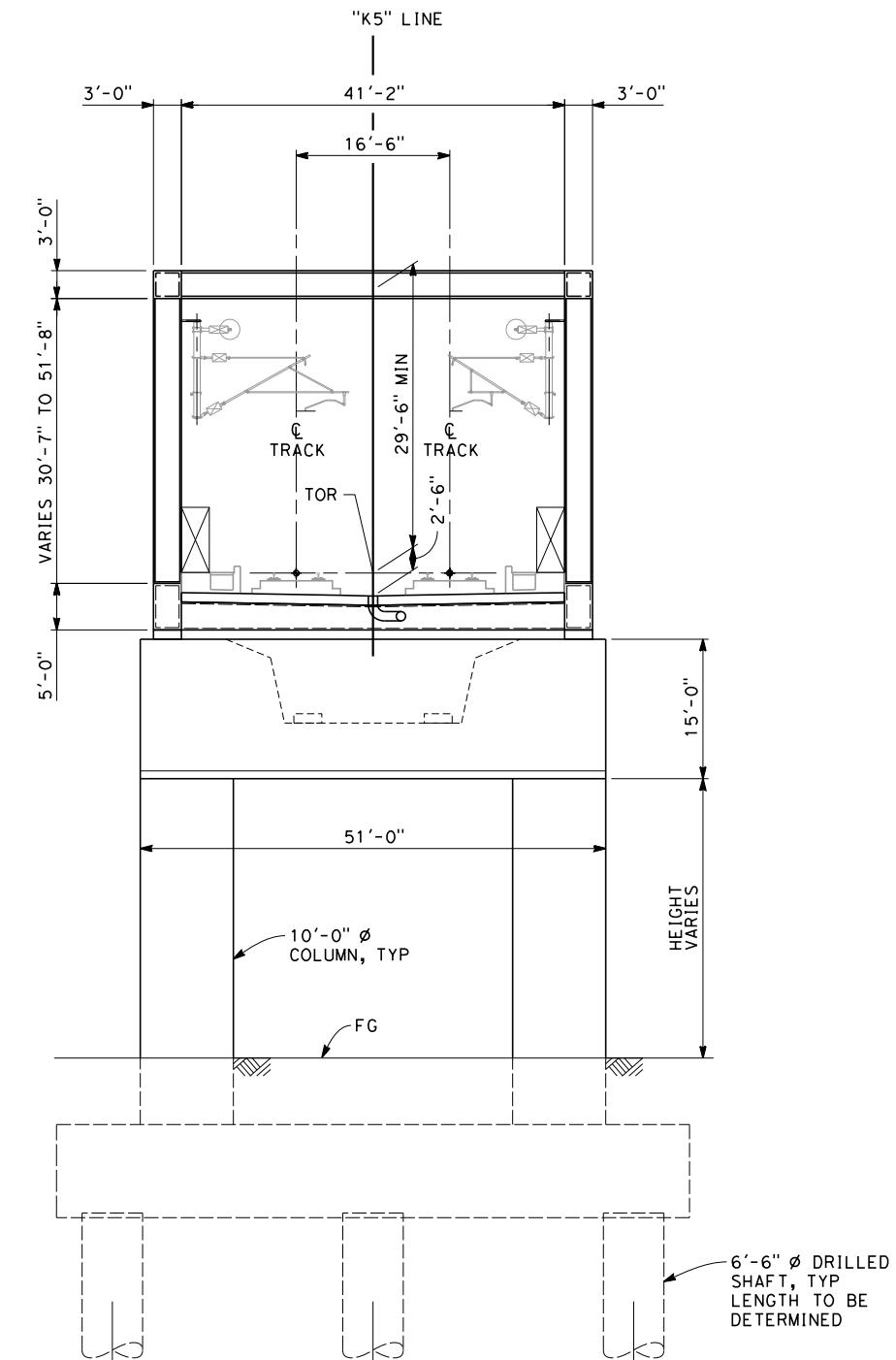


### SECTION A

SCALE: 1" = 10'

STA 2400+80 THROUGH 2449+62  
 STA 2453+19 THROUGH 2497+00  
 STA 2501+70 THROUGH 2505+30

COLUMN DIAMETERS	
HEIGHT TO SOFFIT	DIAMETER
0-20	8 FT
20-40	10 FT
40-50	12 FT
50-60	15 FT
60-80	20 FT
80-100	25 FT



### SECTION B

SCALE: 1" = 10'

STA 2449+62 THROUGH 2453+19



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

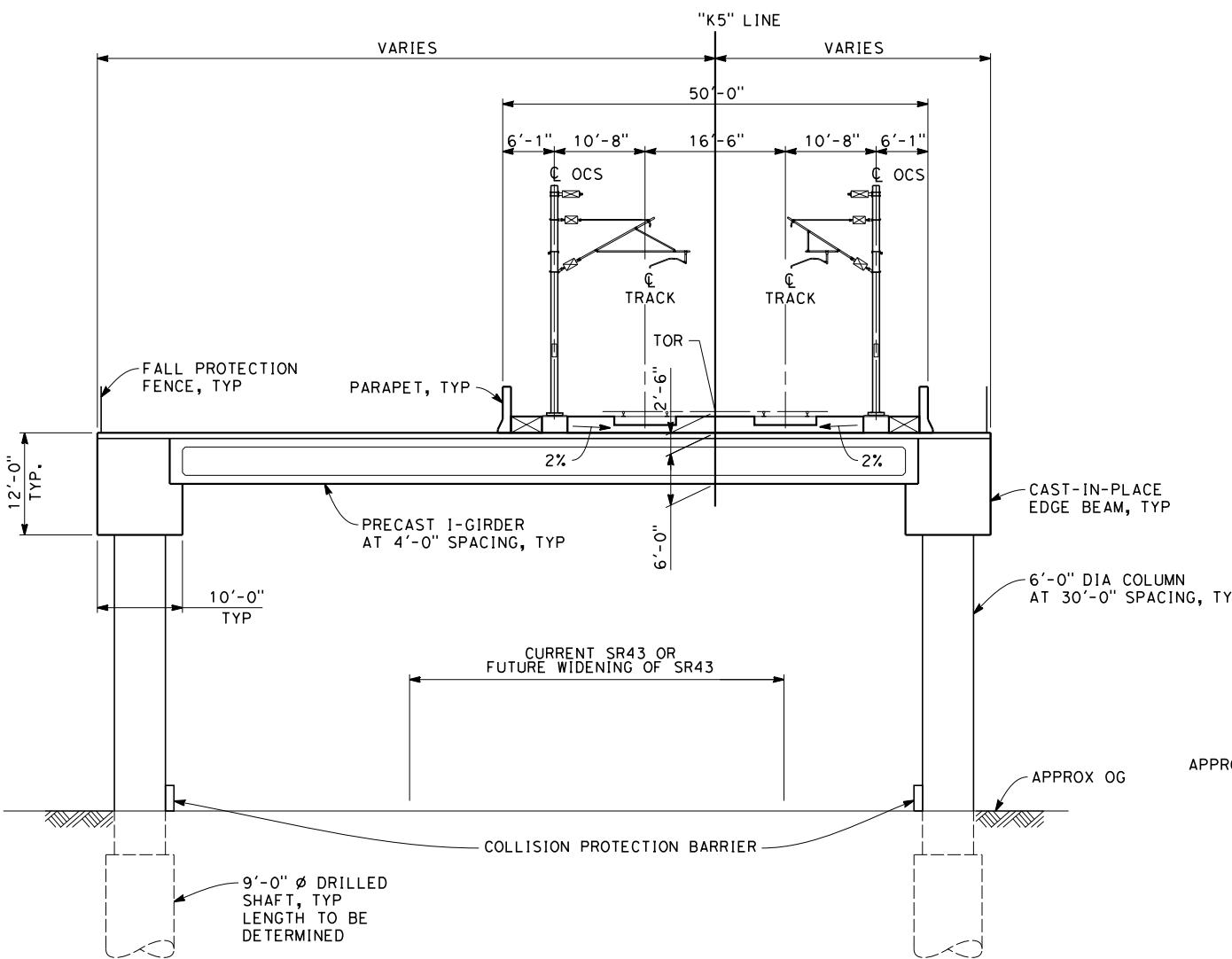
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 KAWeah SUBSECTION  
 ALIGNMENT K5  
 CROSS CREEK VIADUCT  
 TYPICAL SECTIONS

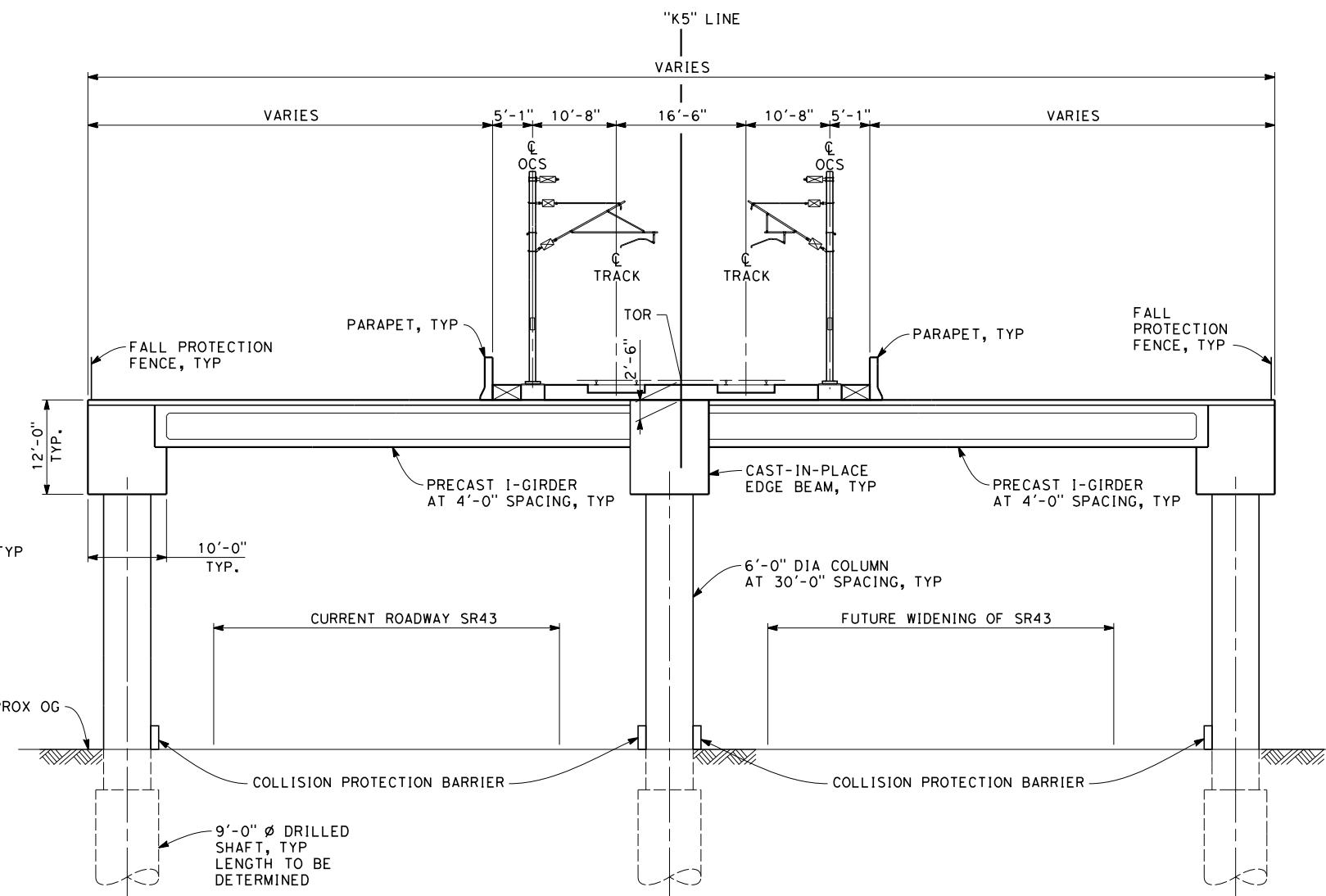
CONTRACT NO.  
HSR 06-0003  
 DRAWING NO.  
SV1082  
 SCALE  
AS SHOWN  
 SHEET NO.  
13 OF 14



### SECTION C

SCALE: 1" = 10'

STA 2497+00 THROUGH 2498+60 APPROX.  
STA 2499+70 THROUGH 2501+70 APPROX.



### SECTION D

SCALE: 1" = 10'

STA 2498+60 THROUGH 2499+70 APPROX.



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
					12/31/13	

DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
CROSS CREEK VIADUCT  
TYPICAL SECTIONS

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1083  
SCALE  
AS SHOWN  
SHEET NO.  
14 OF 14



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

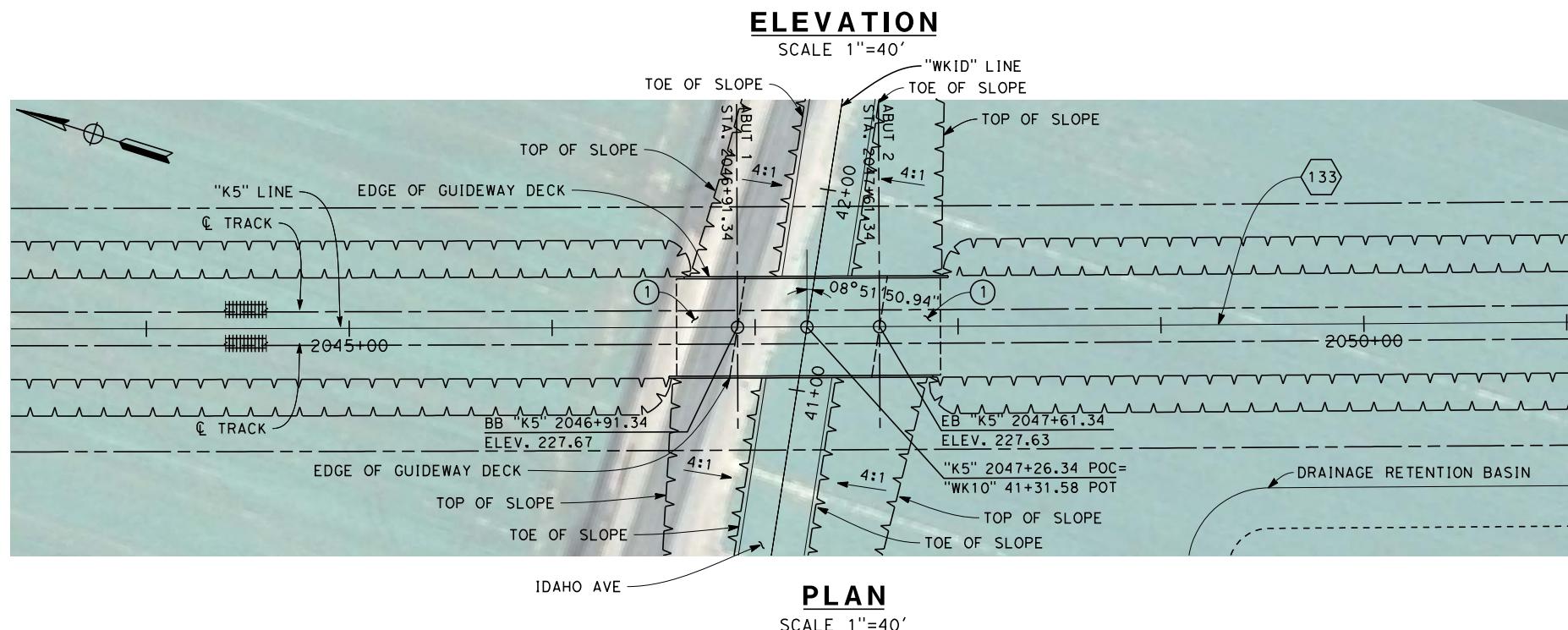
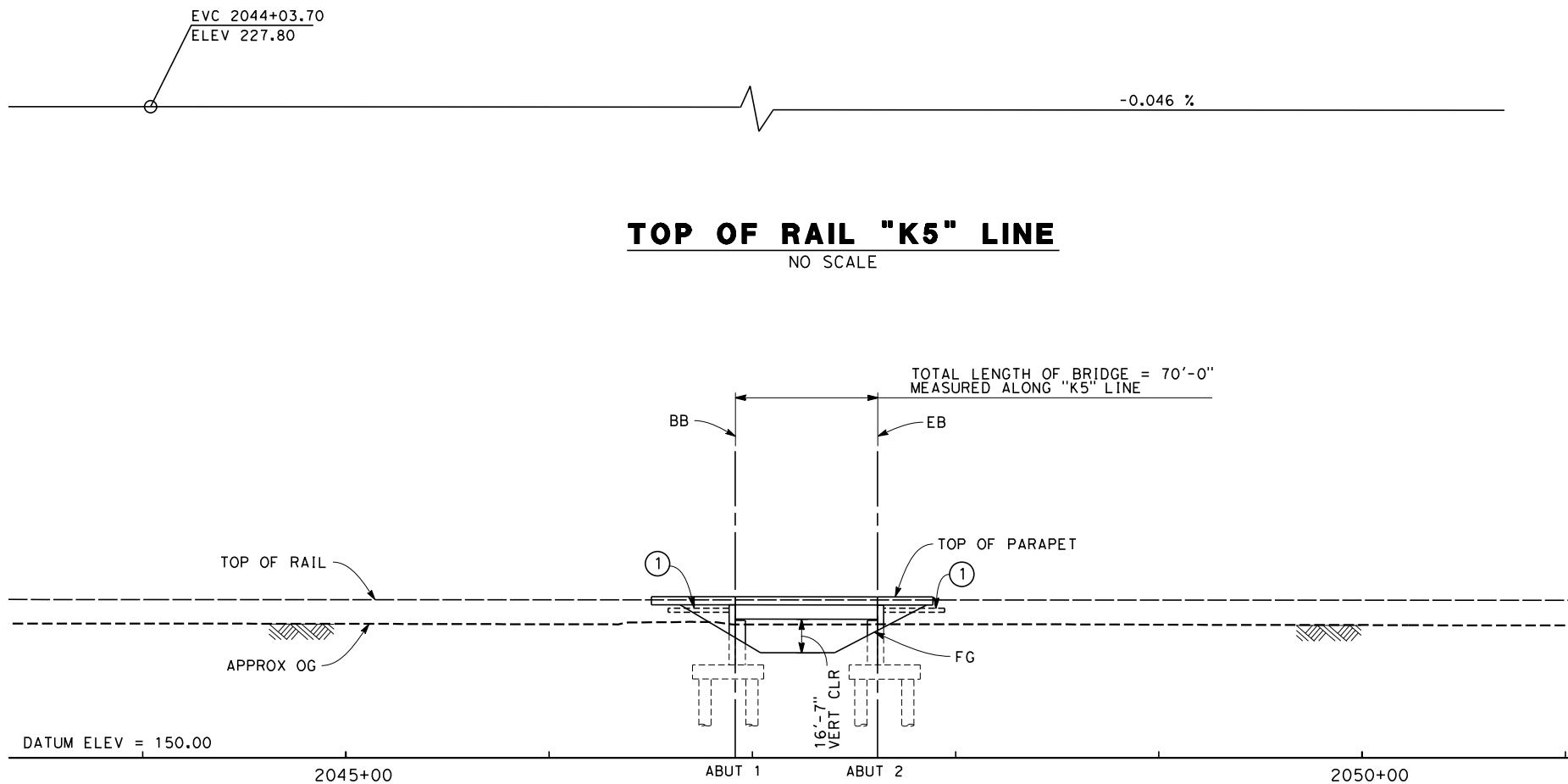
RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
IDAHO AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1150  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2

andrew.armsstrong\2112\2013\21\8:40 PM c:\pwww\working\nmm\externa\andrew.armsstrong\arUp.com\dm82479\fb-SV-1151-K5.dgn



**RECORD SET 15%  
DESIGN SUBMISSION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K5  
IDAHO AVE UNDERPASS  
PLAN AND ELEVATION**

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1151  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



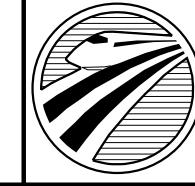
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



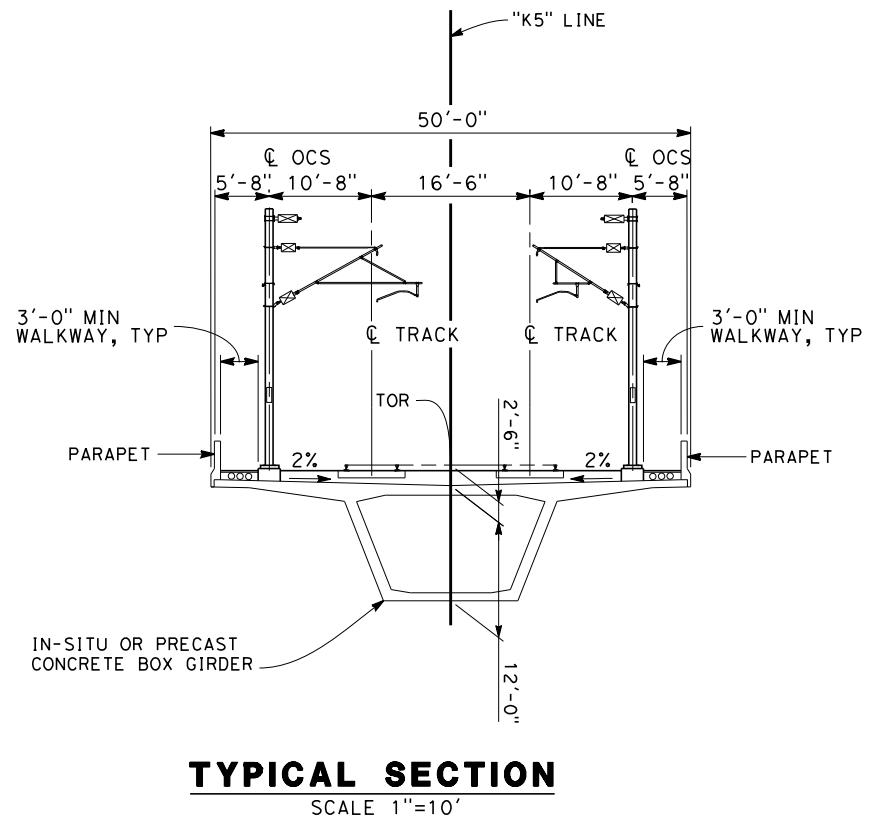
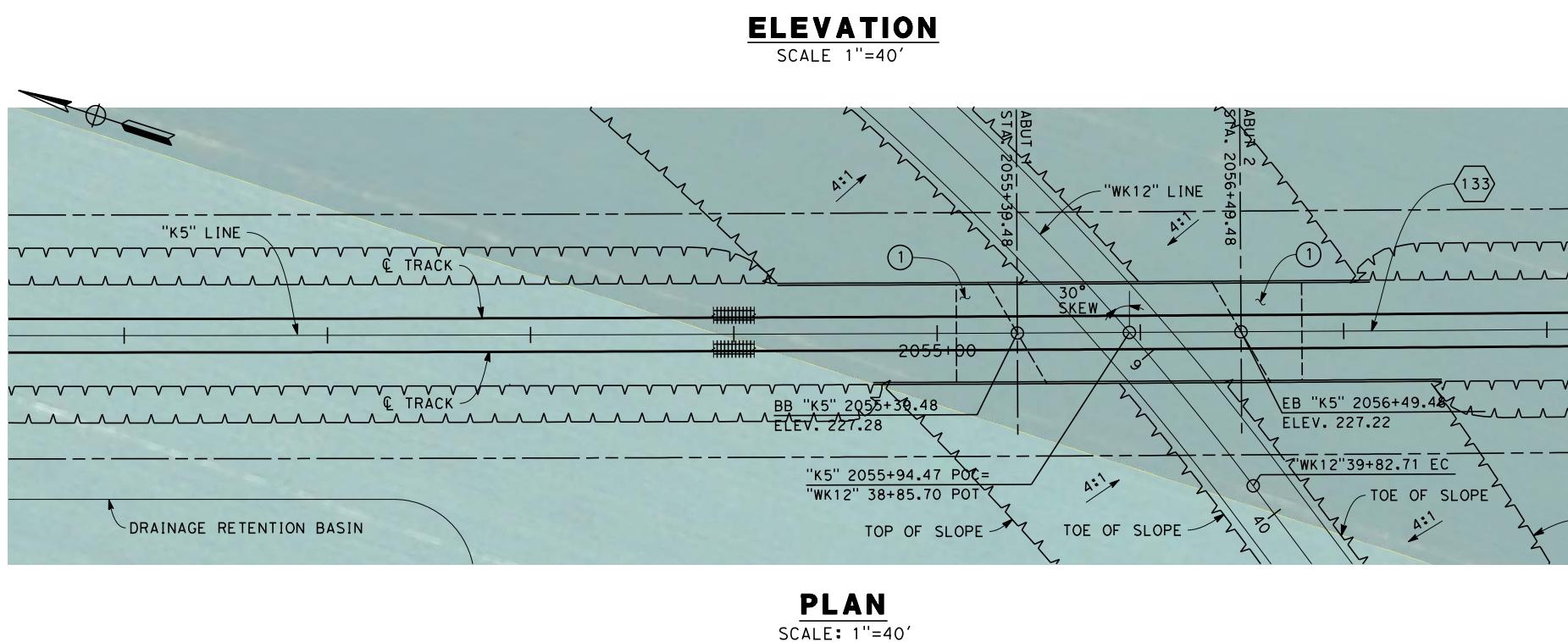
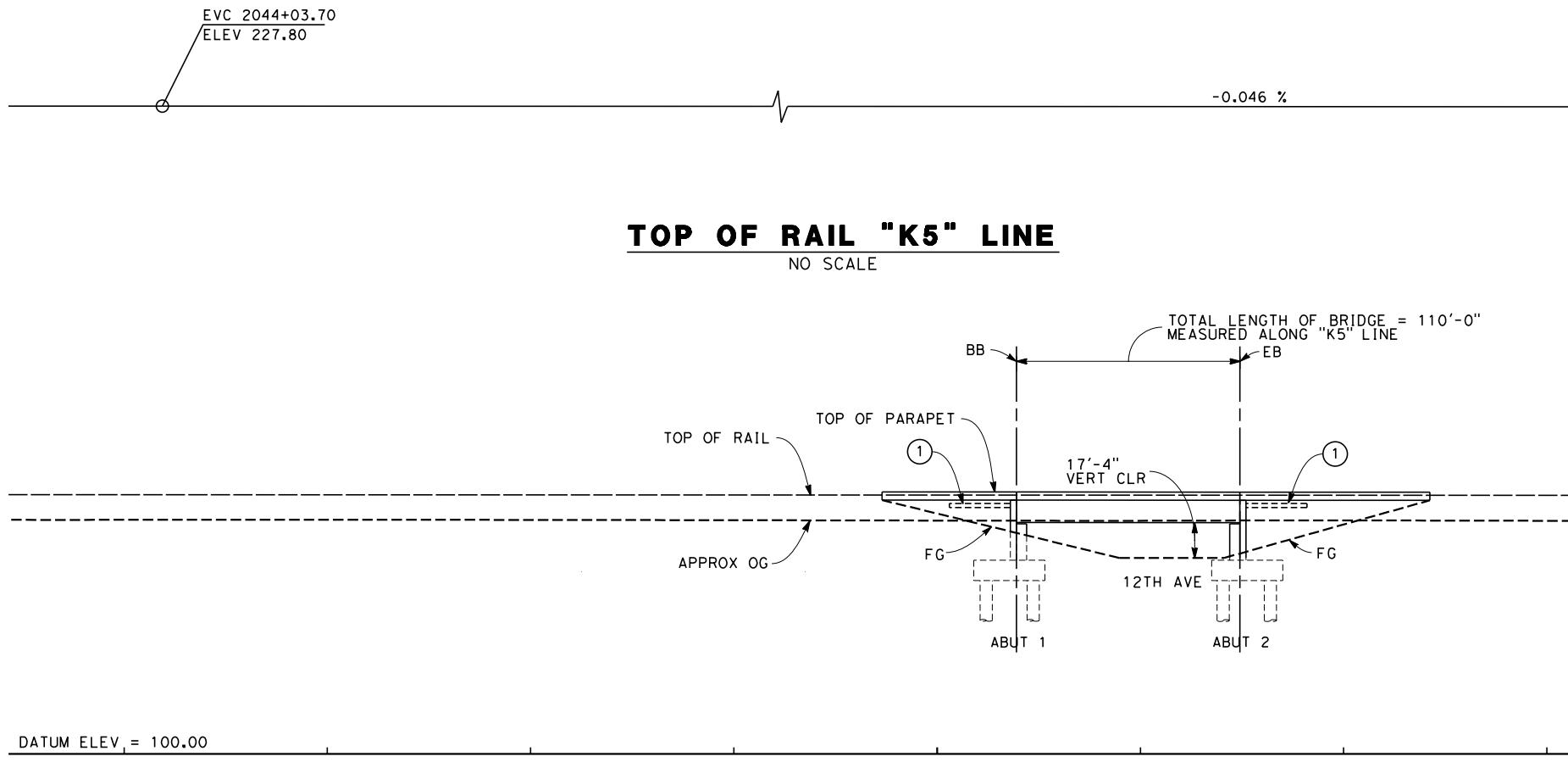
CALIFORNIA  
HIGH-SPEED TRAIN



CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
12TH AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1155  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



NOTES:  
 1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.  
 2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

LEGEND:  
 ① STRUCTURE APPROACH SLAB  
 ■■■■■ INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK

CURVE DATA  
 133  
 R = 100000.00'  
 Δ = 15° 08' 39.6"  
 T = 13293.4'  
 L = 26431.8'

40 0 40 80 10 0 10 20  
1"=40' 1"=10'

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	NOT FOR CONSTRUCTION			DRAWING NO. SV1156
CHECKED BY A. ARMSTRONG				SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 2 OF 2
DATE 12/31/13	DESCRIPTION			
REV	DATE	BY	CHK	APP



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

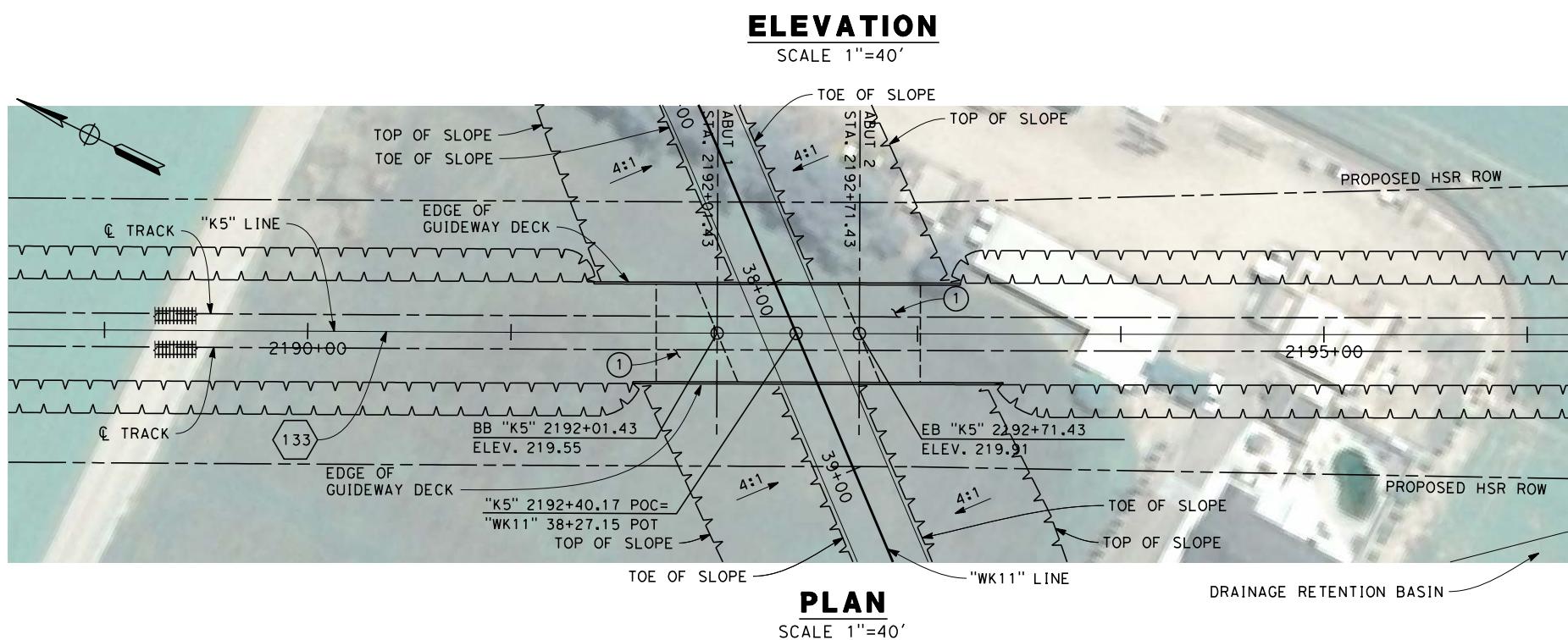
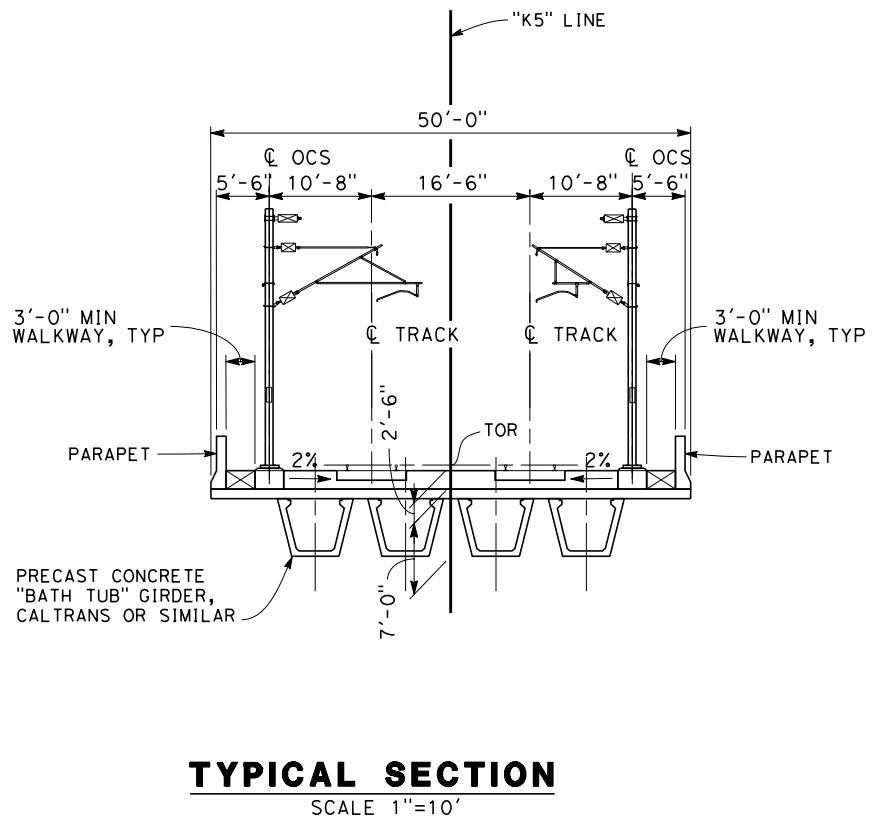
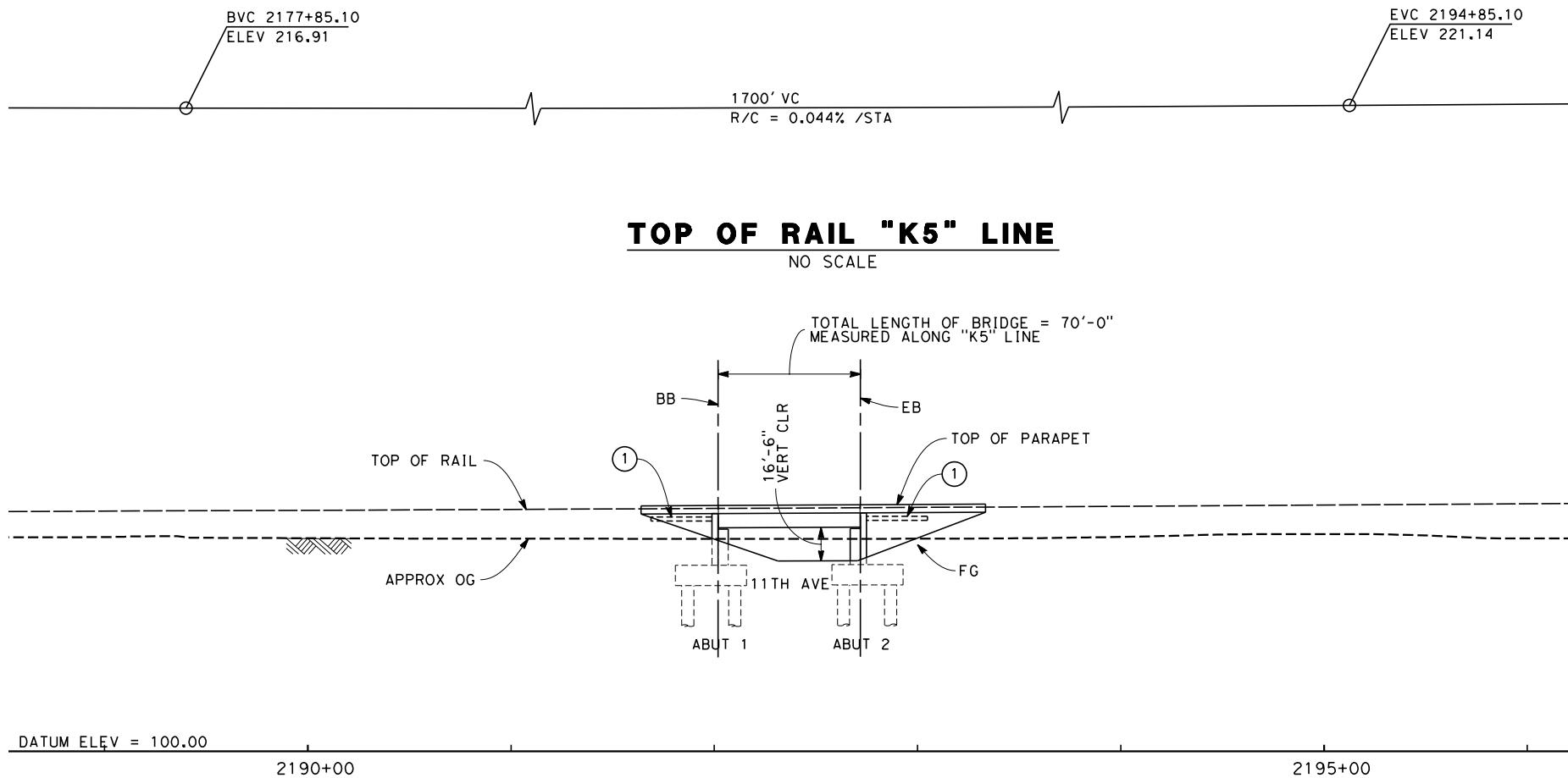
DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
11TH AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1160  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



**NOTES:**

1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

CURVE DATA



R = 100000.00'

Δ = 15° 08' 39.6"

T = 13293.4'

L = 26431.8'

**LEGEND:**

① STRUCTURE APPROACH SLAB

████████ INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK



REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY M. FISHER	DRAWN BY J. VALENZUELA	CHECKED BY A. ARMSTRONG	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION
					12/31/13					



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K5  
11TH AVENUE UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1161  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
KAWeah SUBSECTION  
ALIGNMENT K6  
IDAHO AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1165  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2





REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

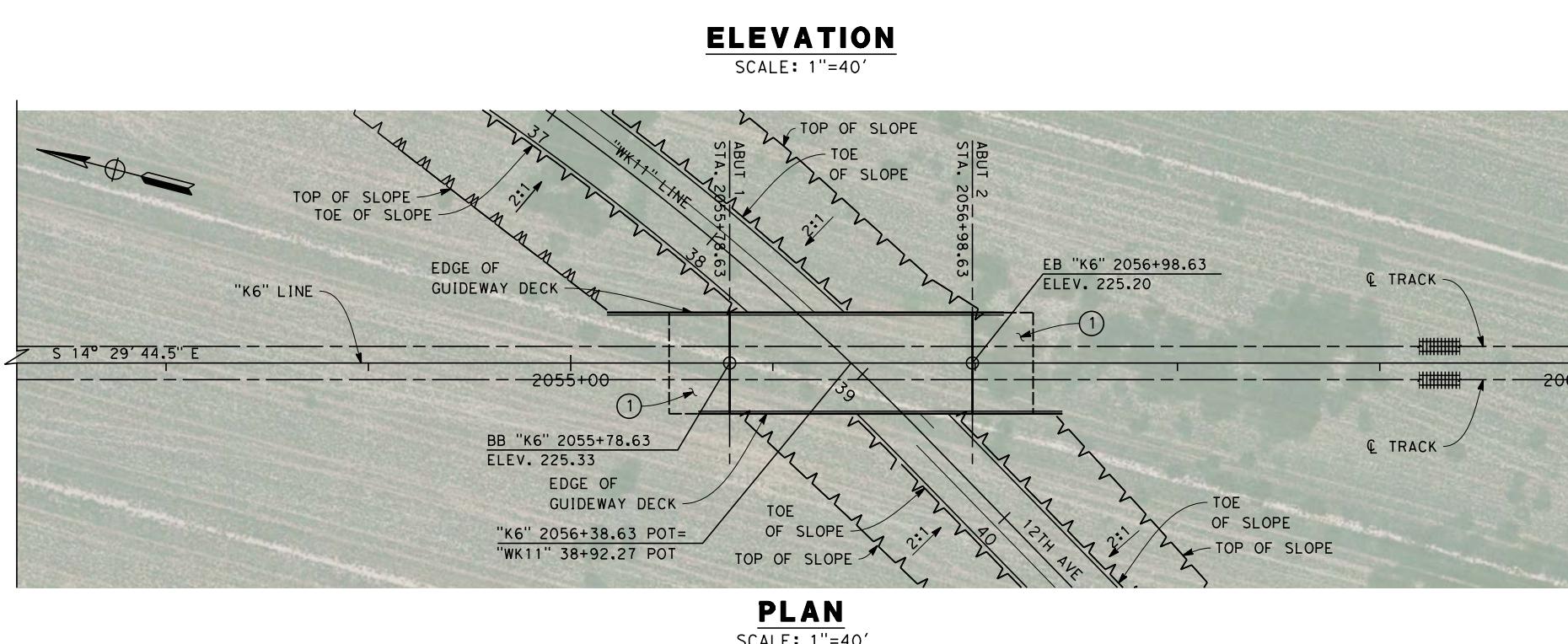
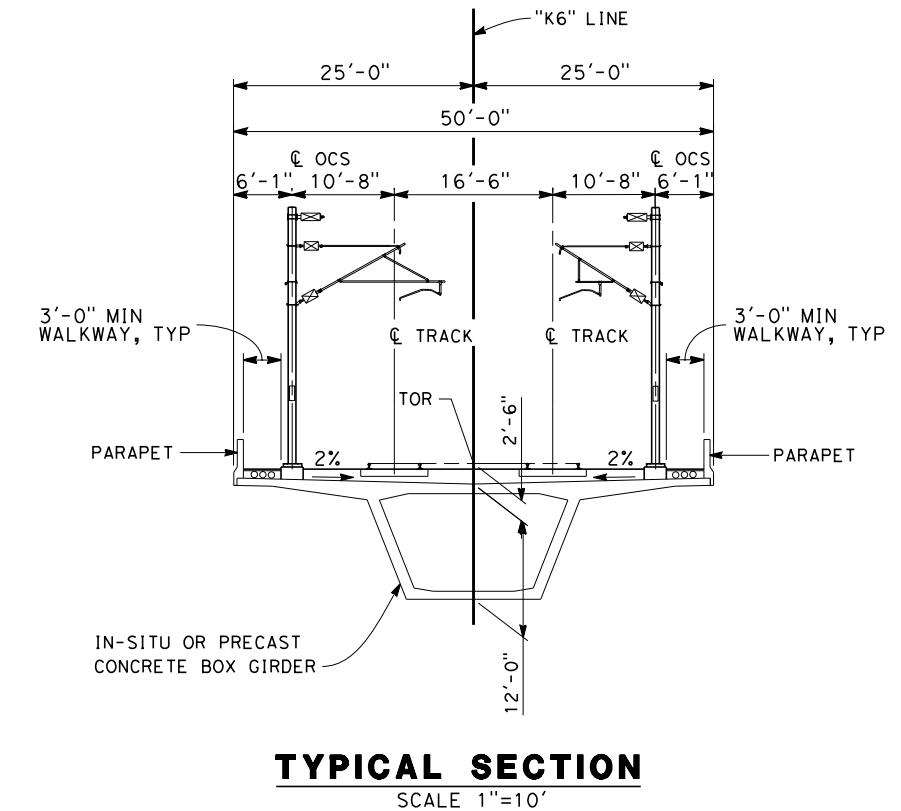
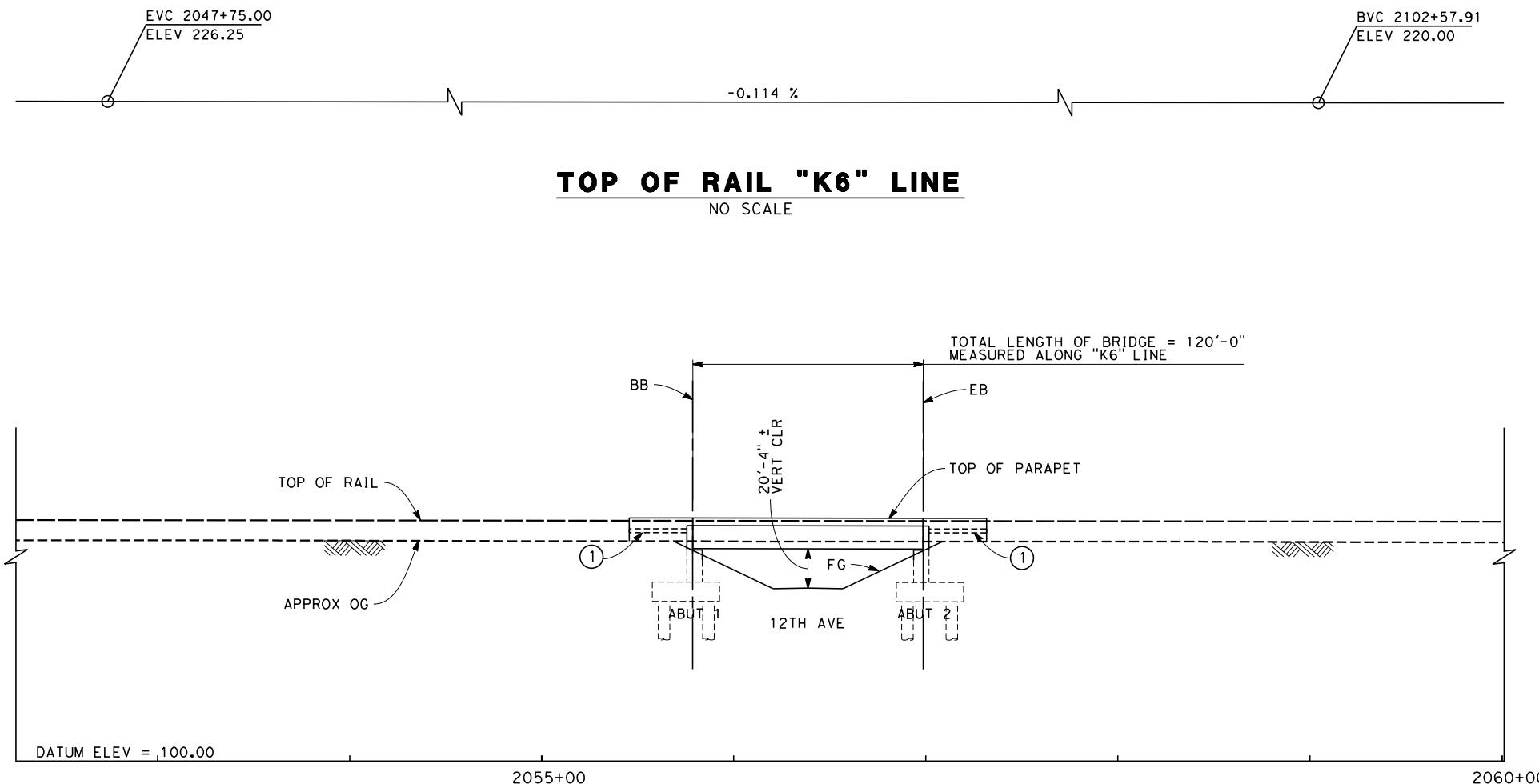
DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
12TH AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1170  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



NOTES:

1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES,  
SEE ALIGNMENT DRAWINGS.

#### LEGEND:

||||| INDICATES RAILROAD AND

DESIGNED BY	M. FISHER
DRAWN BY	F. PARSONS
CHECKED BY	A. ARTHUR
IN CHARGE	R. COOPER
DATE	12/12/00

**RECORD SET 15%**  
**DESIGN SUBMISSION**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K6  
12TH AVE UNDERPASS  
PLAN AND ELEVATION**

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1171  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

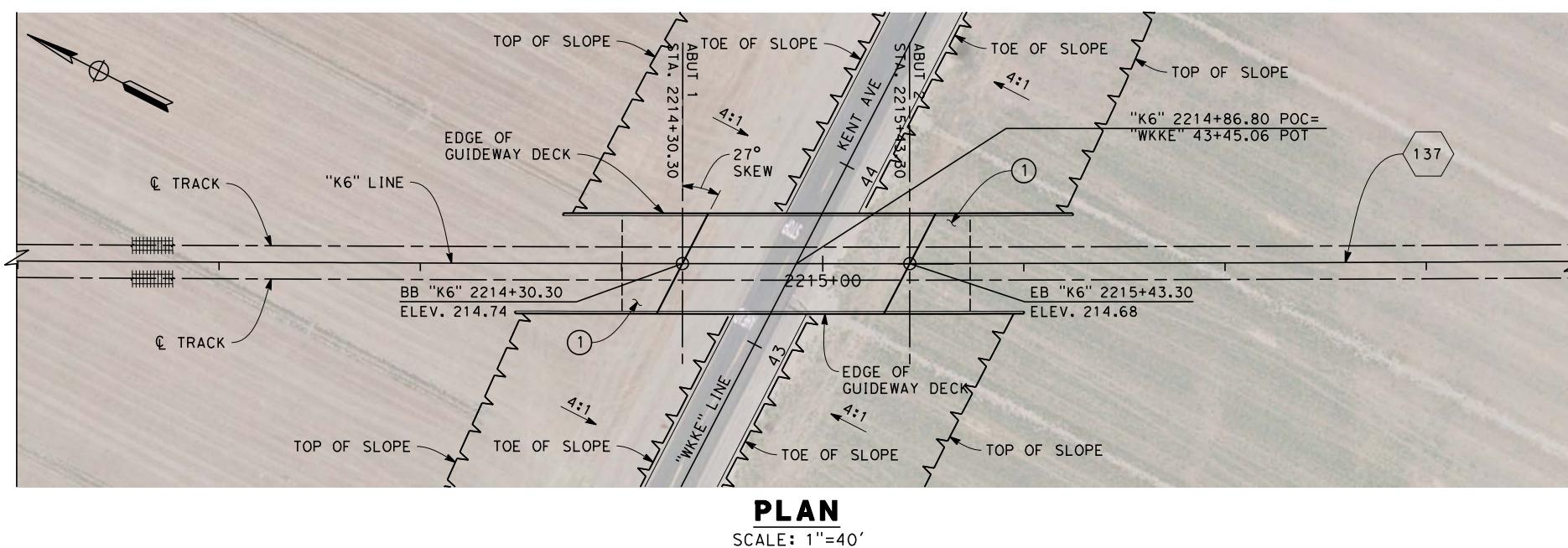
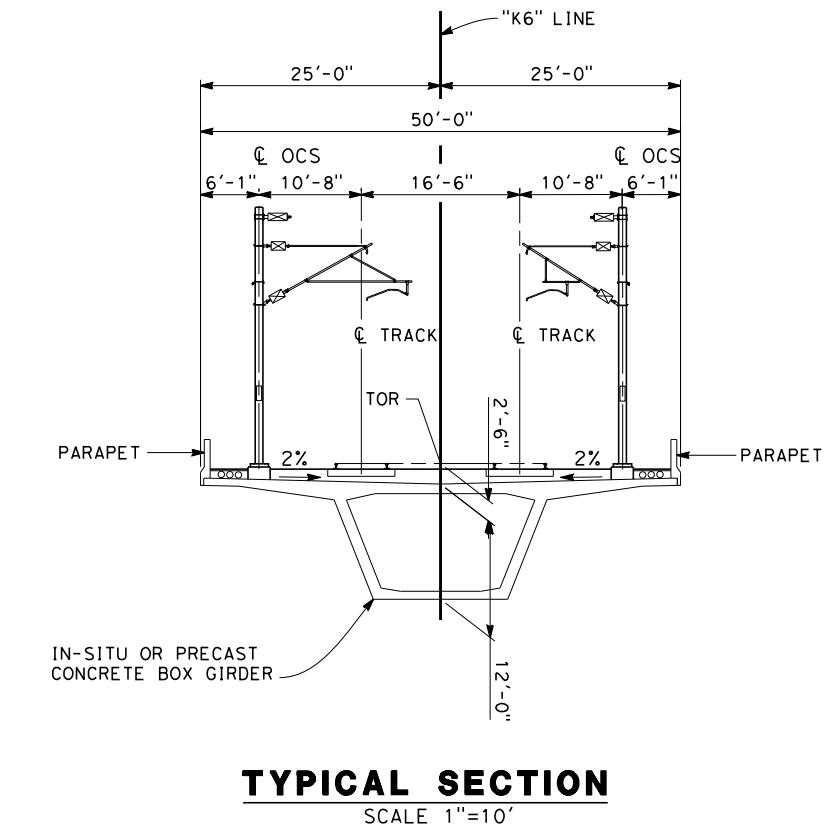
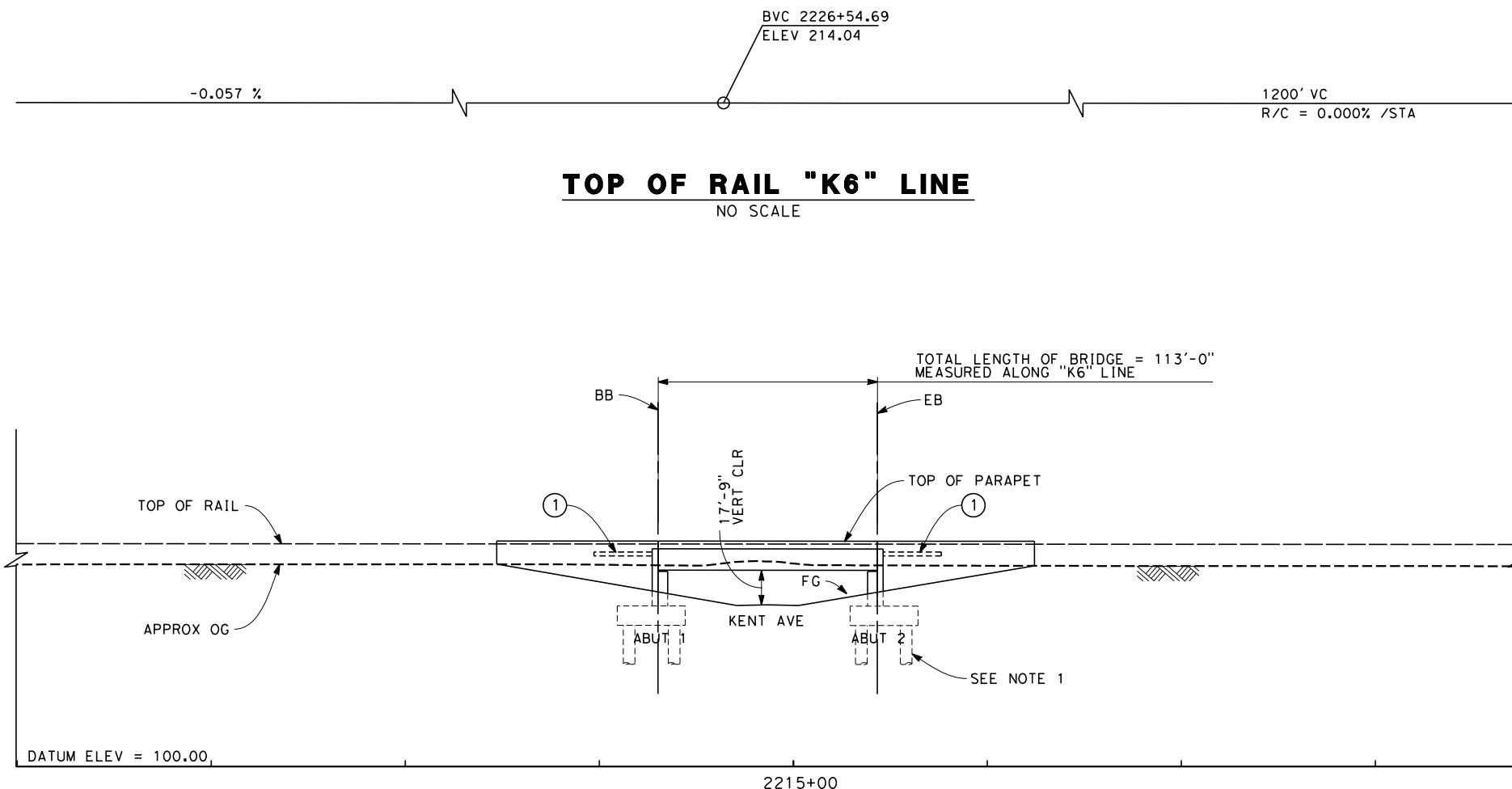
DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
KENT AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1175  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



NOTES:

1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

LEGEND:  
① STRUCTURE APPROACH SLAB  
 INDICATES RAILROAD AND  
HIGH-SPEED TRAIN TRACK

CURVE DATA  
  
137  
R = 60000.00'  
Δ = 19° 28' 23.2"  
T = 10295.4'  
L = 20392.2'



卷之三

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1

DESIGNED
M. F.
DRAWN BY
F. PA
CHECKED
A. AR
IN CHARGE
R. CO
DATE
12

R  
MO  
RONG  
N  
1/13

**RECORD SET 15%**  
**DESIGN SUBMISSION**

**NOT FOR**  
**CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K6  
KENT AVE UNDERPASS  
PLAN AND ELEVATION**

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1176  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

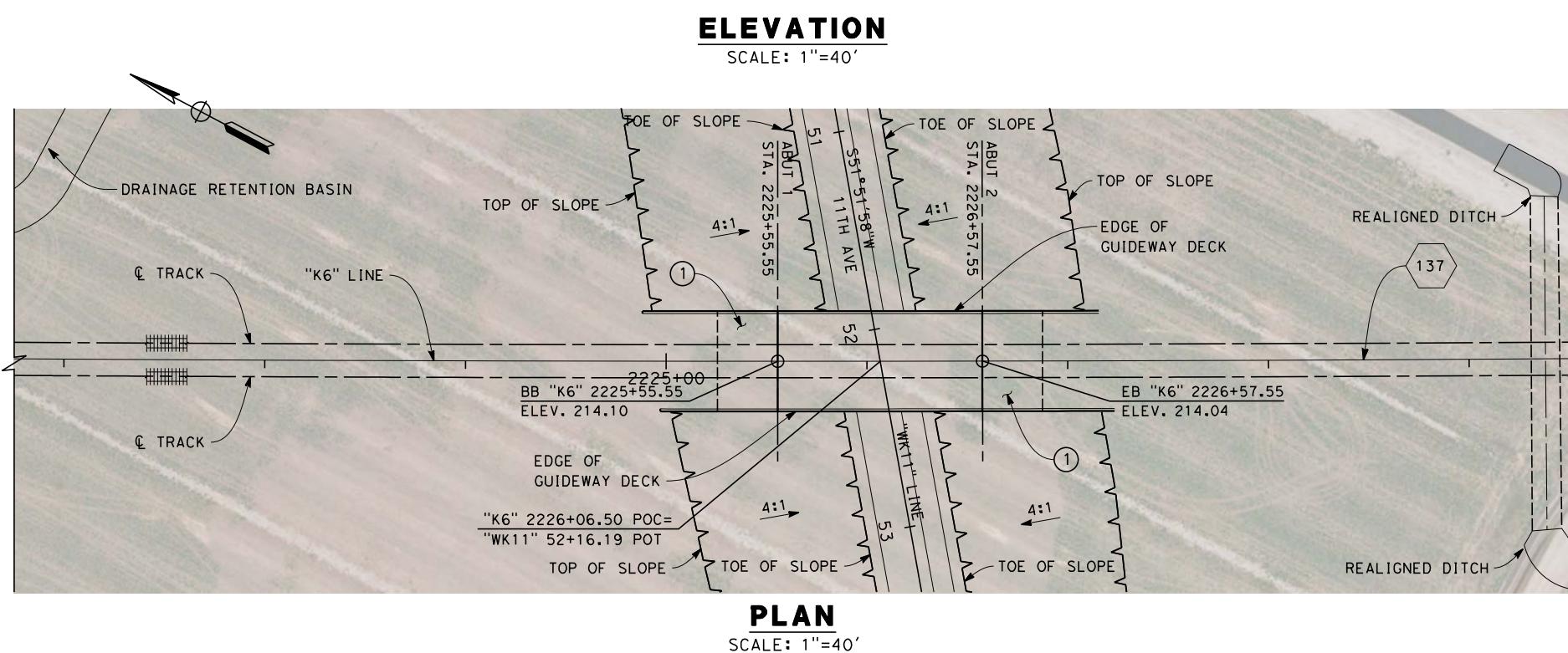
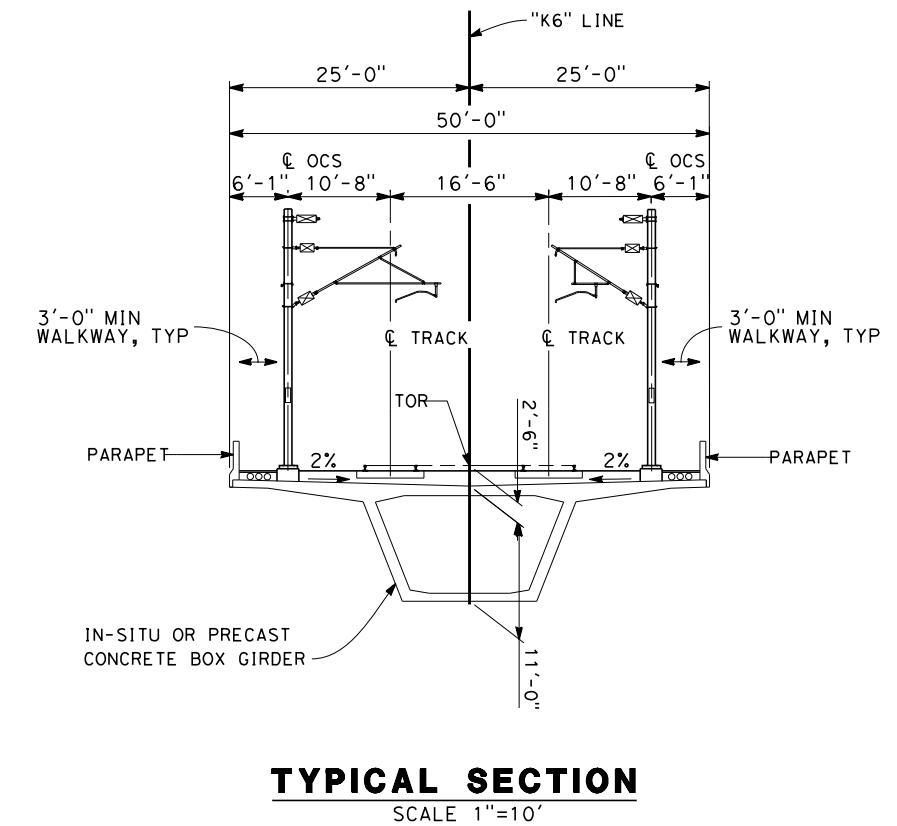
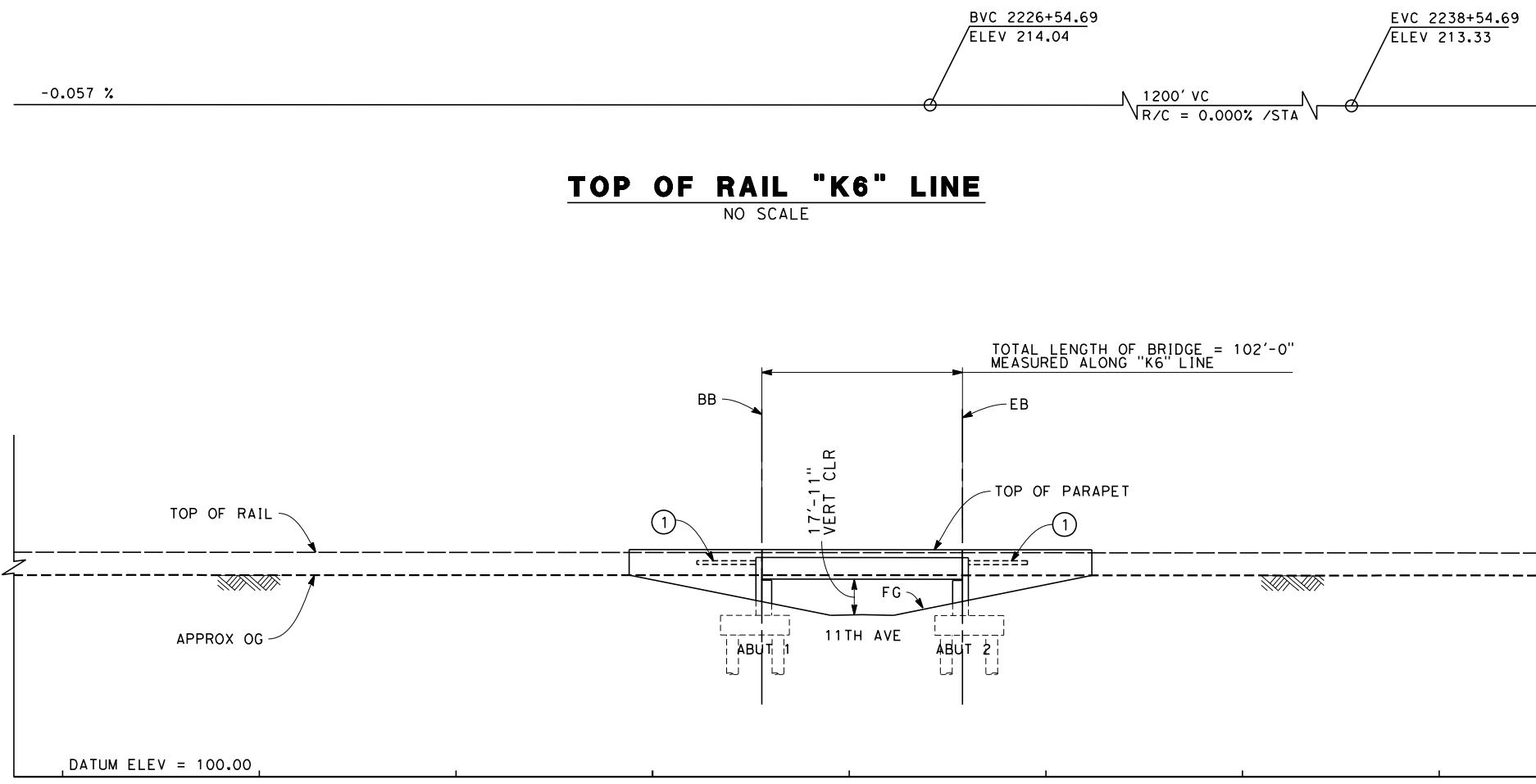
DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
11TH AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1180  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



NOTES:  
 1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.  
 2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

LEGEND:  
 ① STRUCTURE APPROACH SLAB  
 RAILROAD AND HIGH-SPEED TRAIN TRACK

CURVE DATA  
137

R = 60000.00'  
 Δ = 19° 28' 23.2"  
 T = 10295.4'  
 L = 20392.2'

40 0 40 80 10 0 10 20  
1"=40' 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
11TH AVE UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1181  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

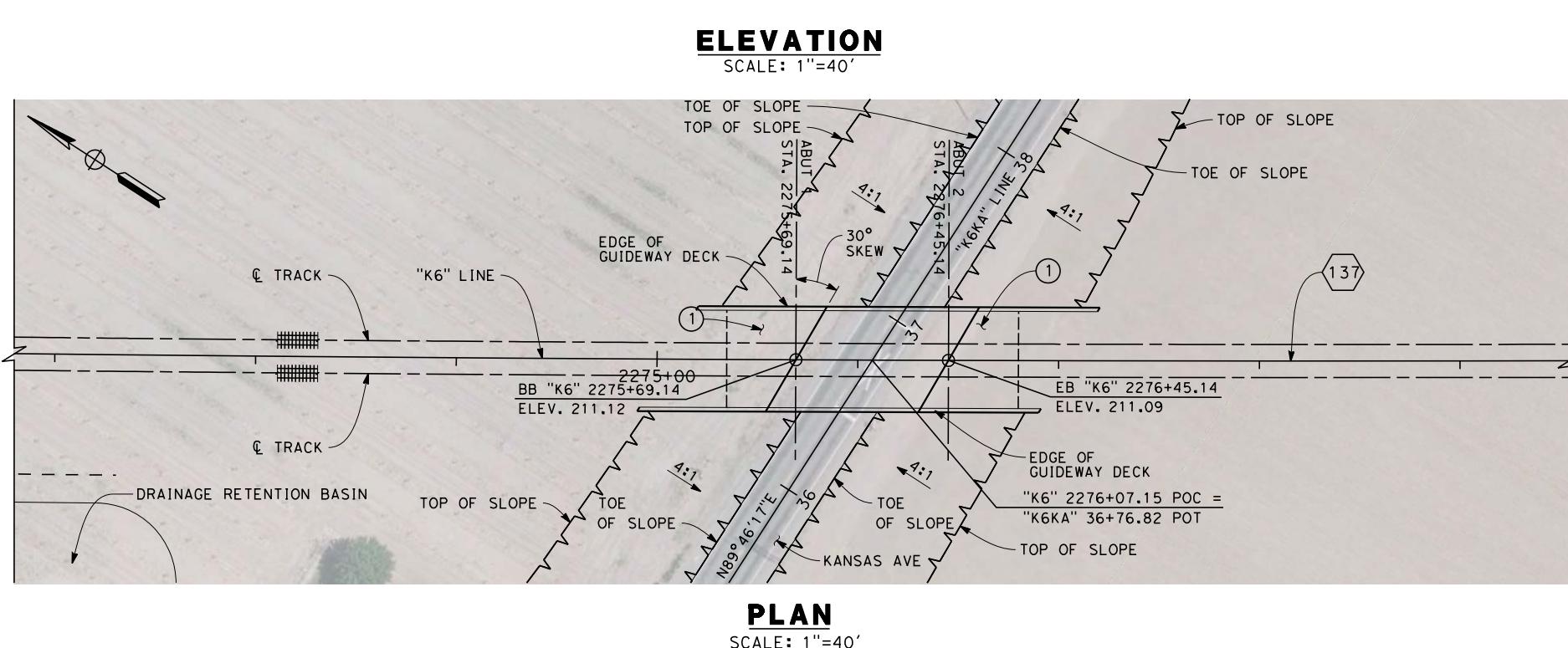
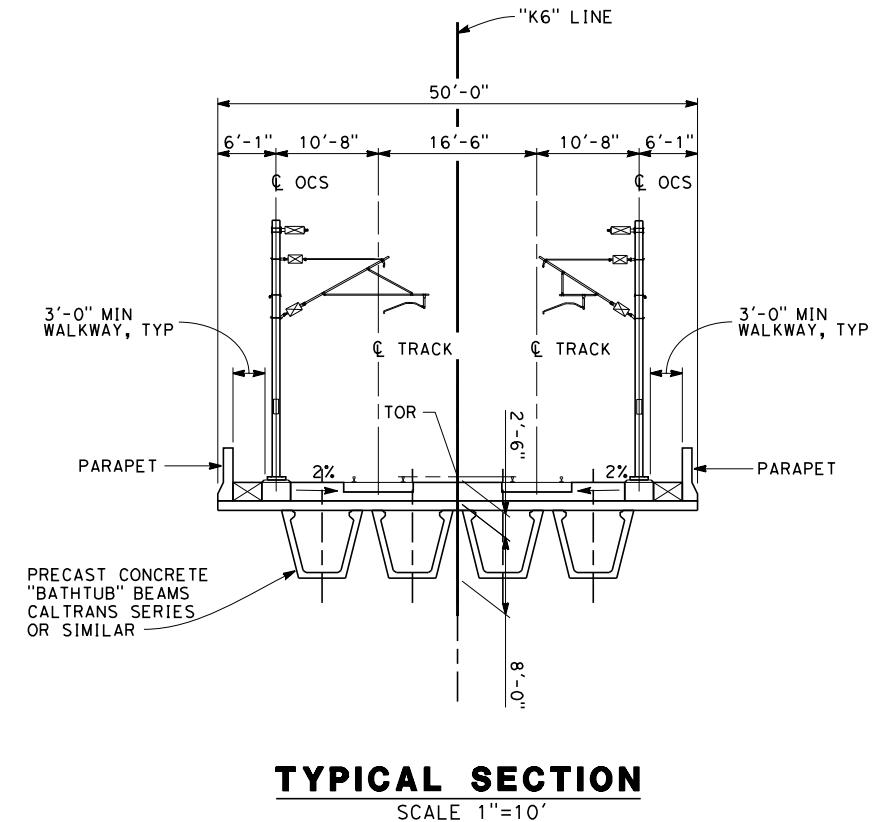
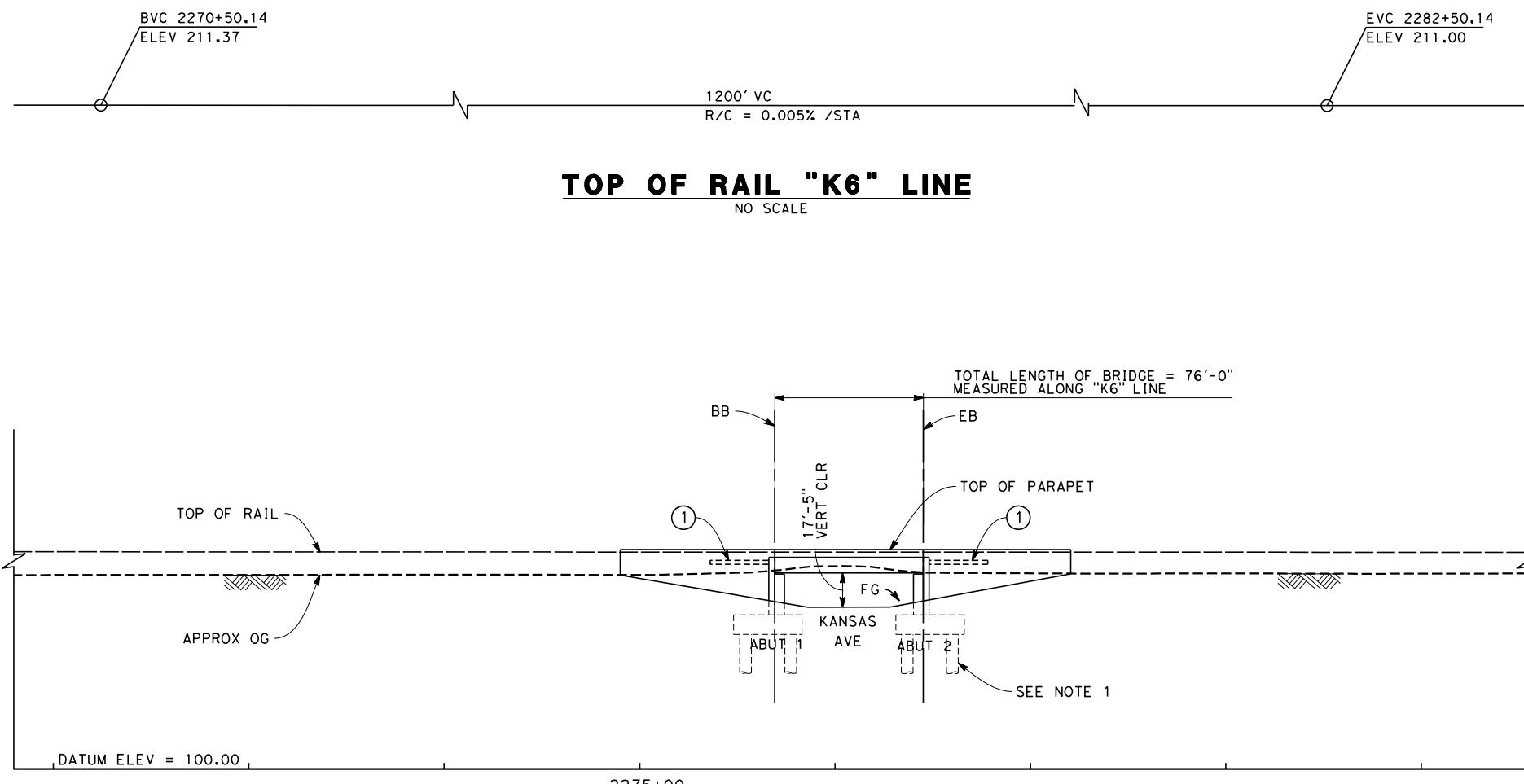
DESIGNED BY  
M. FISHER  
DRAWN BY  
J. VALENZUELA  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
KANSAS AVE UNDERPASS  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1185  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 2



**NOTES:**  
1. PILE LENGTH TO BE DETERMINED/NOT ALL PILES SHOWN.  
2. FOR MINIMUM VERTICAL CLEARANCES, SEE ALIGNMENT DRAWINGS.

**LEGEND:**  
① STRUCTURE APPROACH SLAB  
██████████ INDICATES RAILROAD AND HIGH-SPEED TRAIN TRACK

## CURVE DATA



R = 60000.00'  
Δ = 19° 28' 23.2"  
T = 10295.4'  
L = 20392.2'



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
KANSAS AVE UNDERPASS  
PLAN AND ELEVATION

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1186  
SCALE  
AS SHOWN  
SHEET NO.  
2 OF 2



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

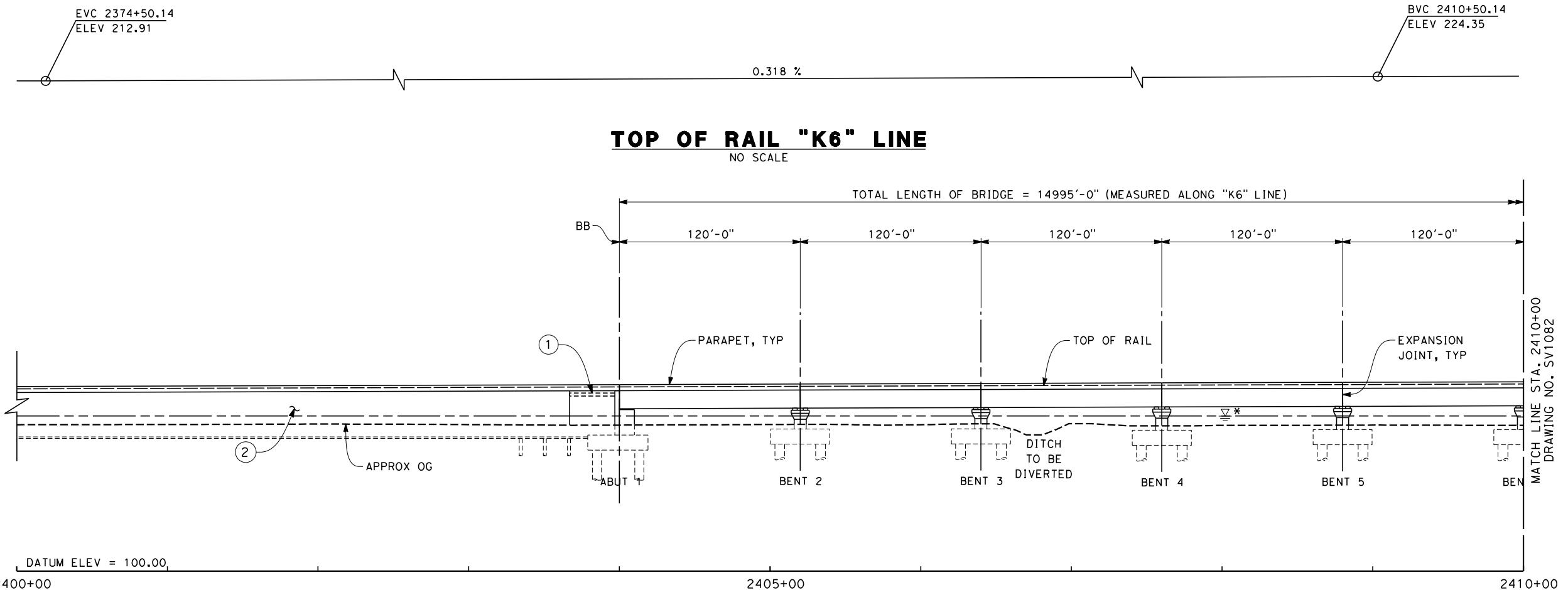
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



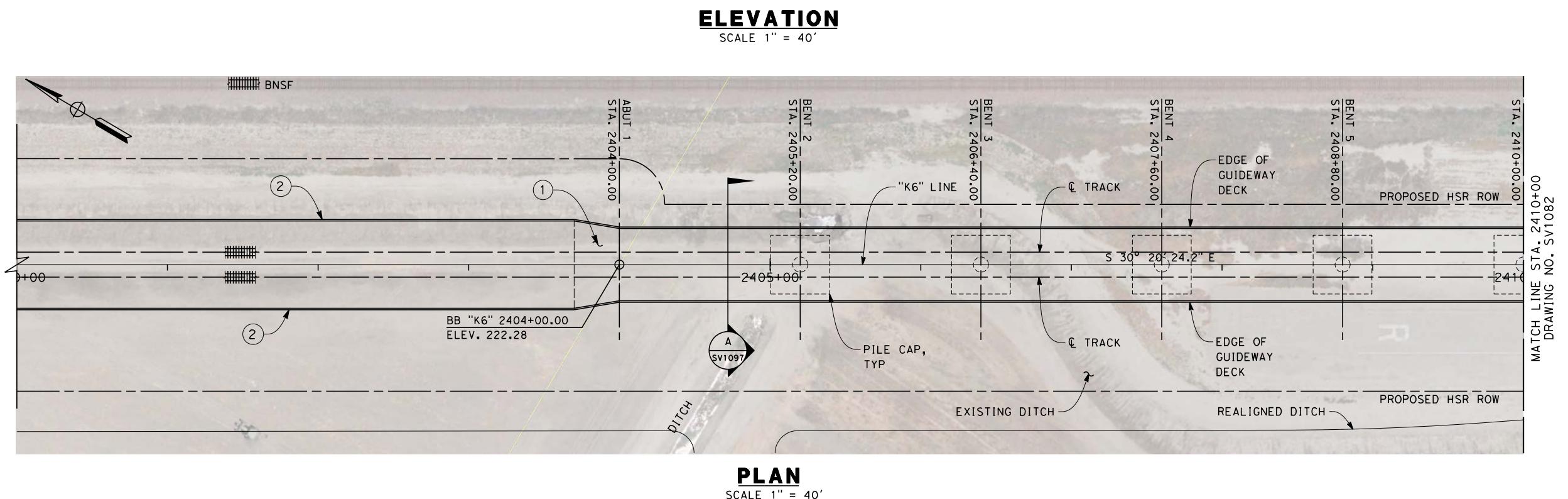
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
KEY MAP

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
SV1080  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 18



**NOTES**

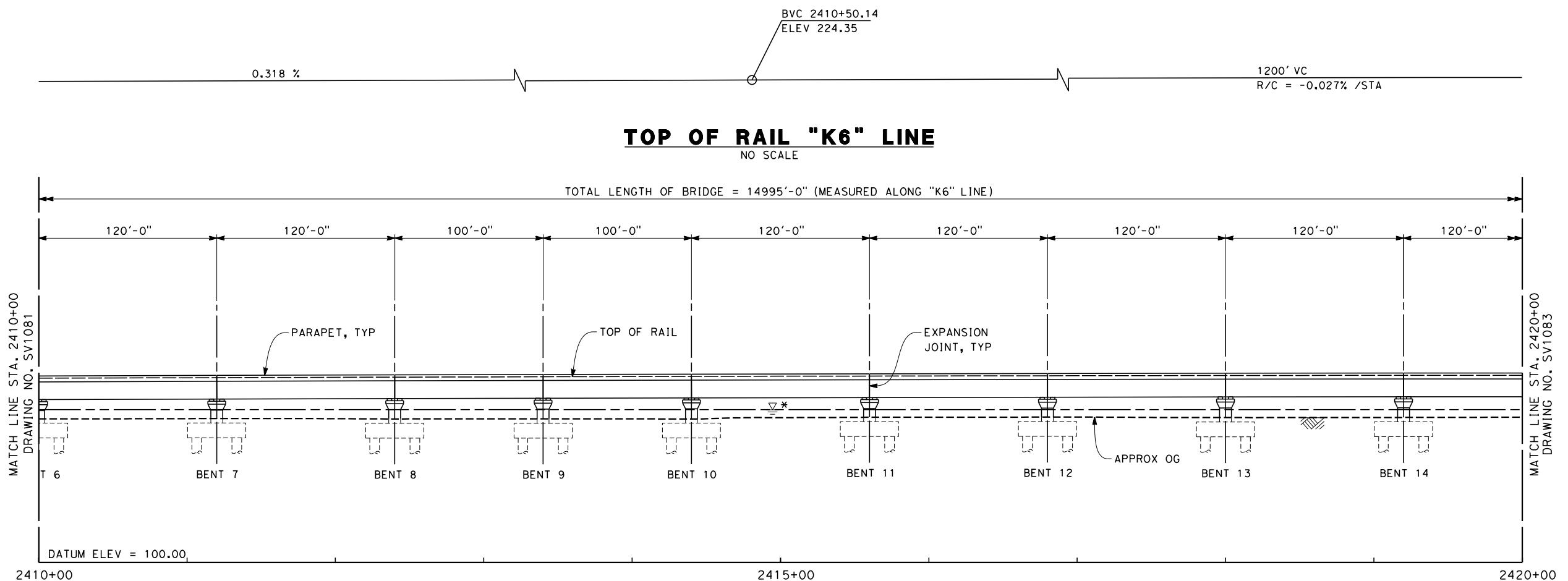
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



**LEGEND:**

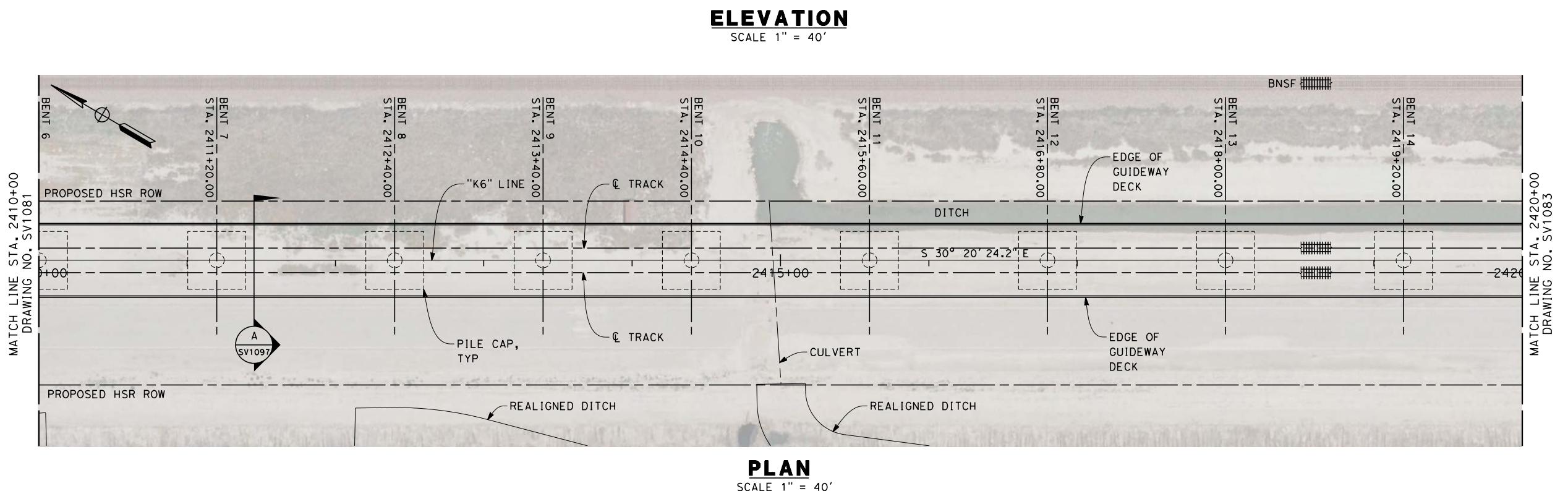
- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	DRAWING NO. SV1081
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 2 OF 18
DATE 12/31/13				
REV	DATE	BY	CHK	APP
			DESCRIPTION	



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

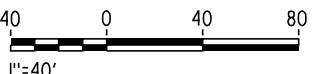
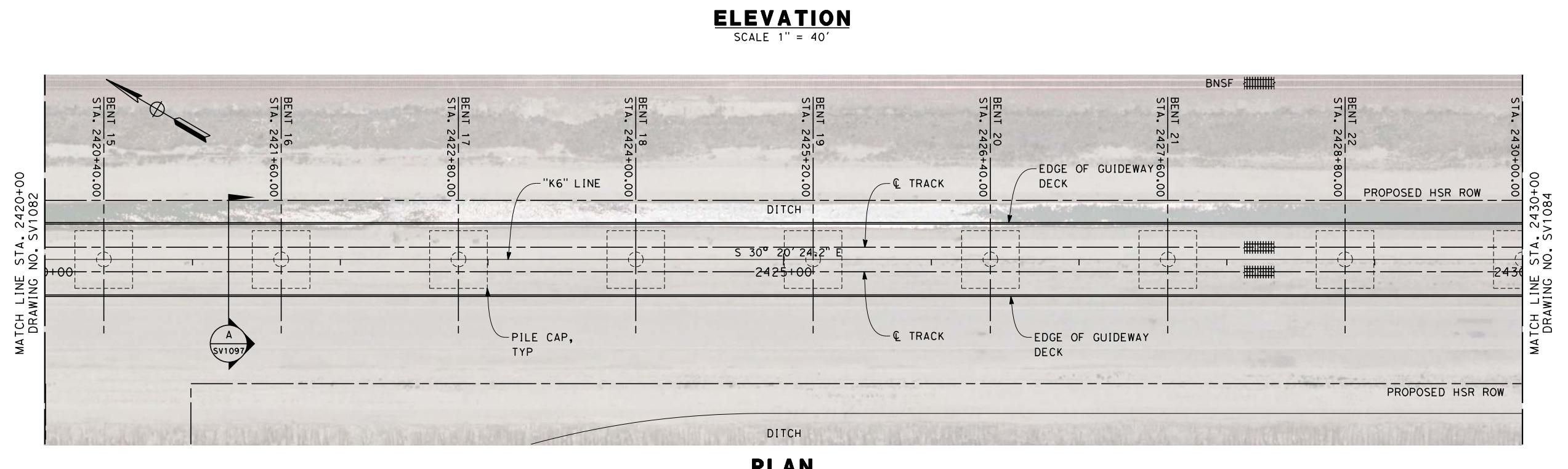
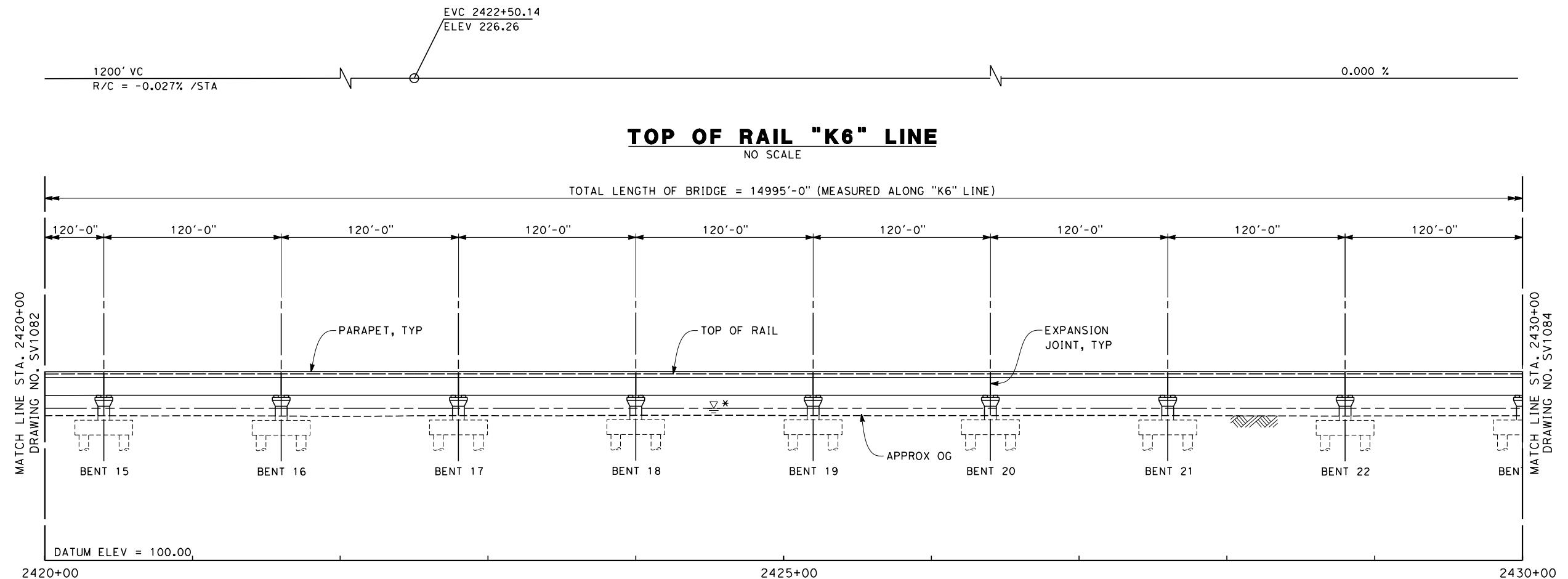


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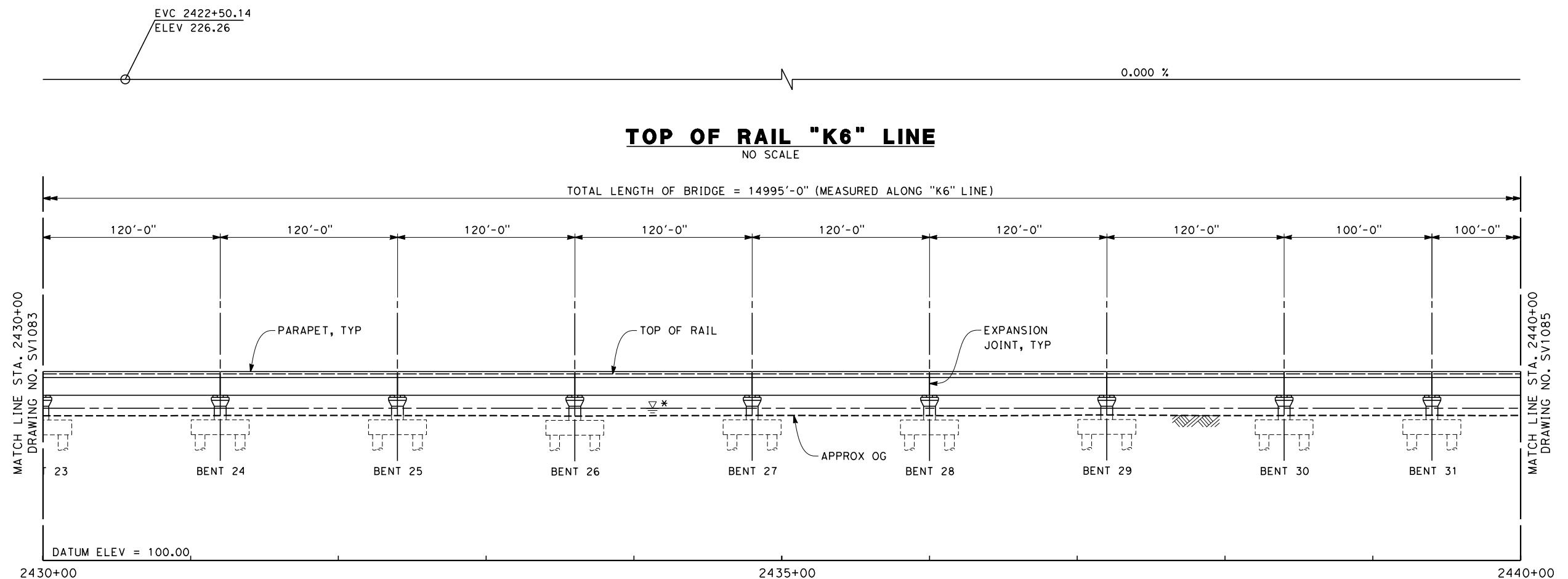
- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	CONTRACT NO. HSR06-0003
DRAWN BY F. PALERMO	-				DRAWING NO. SV1082
CHECKED BY A. ARMSTRONG	-				SCALE
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION				AS SHOWN
DATE 12/31/13					SHEET NO. 3 OF 18
REV	DATE	BY	CHK	APP	DESCRIPTION

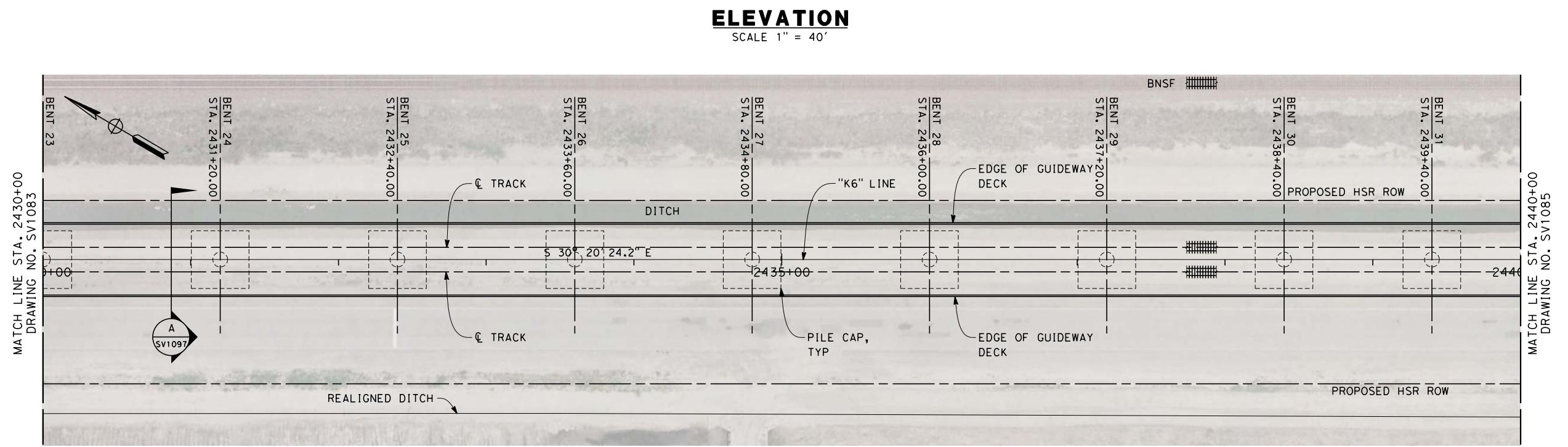


DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN	KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	DRAWING NO. SV1083
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 4 OF 18
DATE 12/31/13	DESCRIPTION			
REV	DATE	BY	CHK	APP



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPN  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

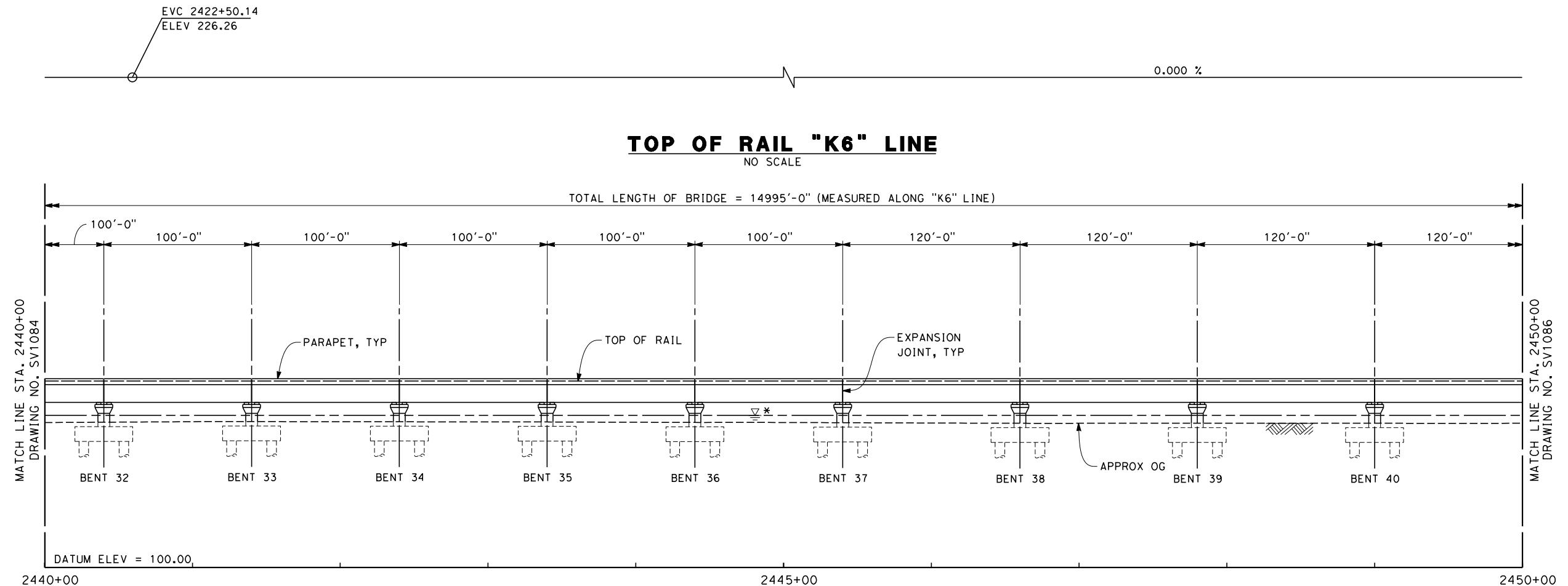


**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

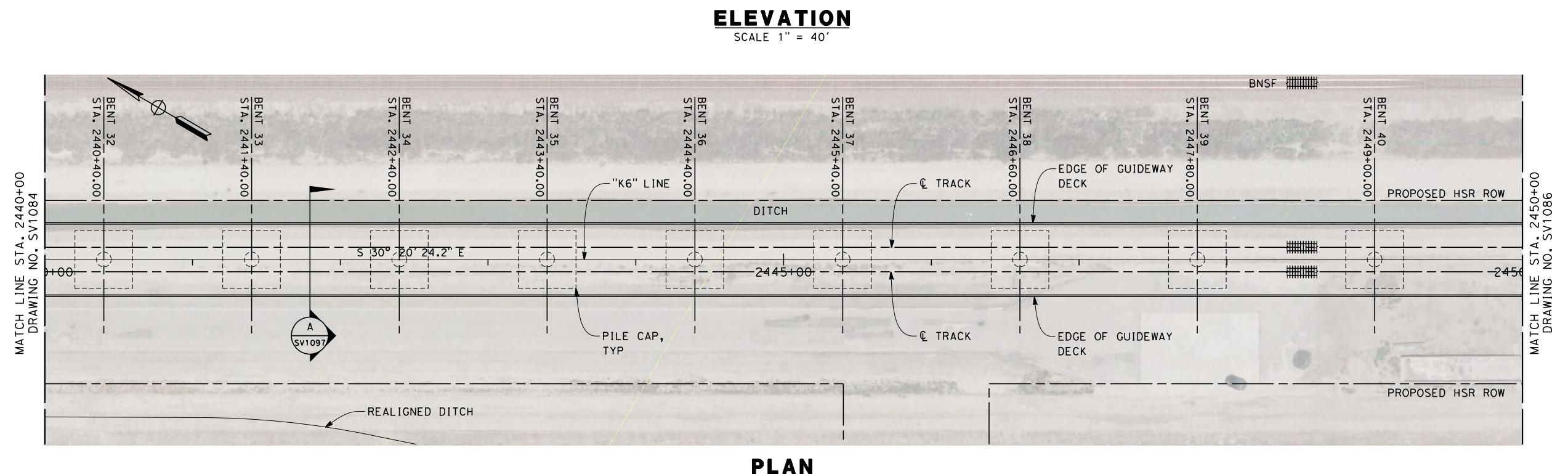
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DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	CONTRACT NO. HSR06-0003
DRAWN BY F. PALERMO	-				DRAWING NO. SV1084
CHECKED BY A. ARMSTRONG	-				SCALE AS SHOWN
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION				SHEET NO. 5 OF 18
DATE 12/31/13	DESCRIPTION				
REV	DATE	BY	CHK	APP	



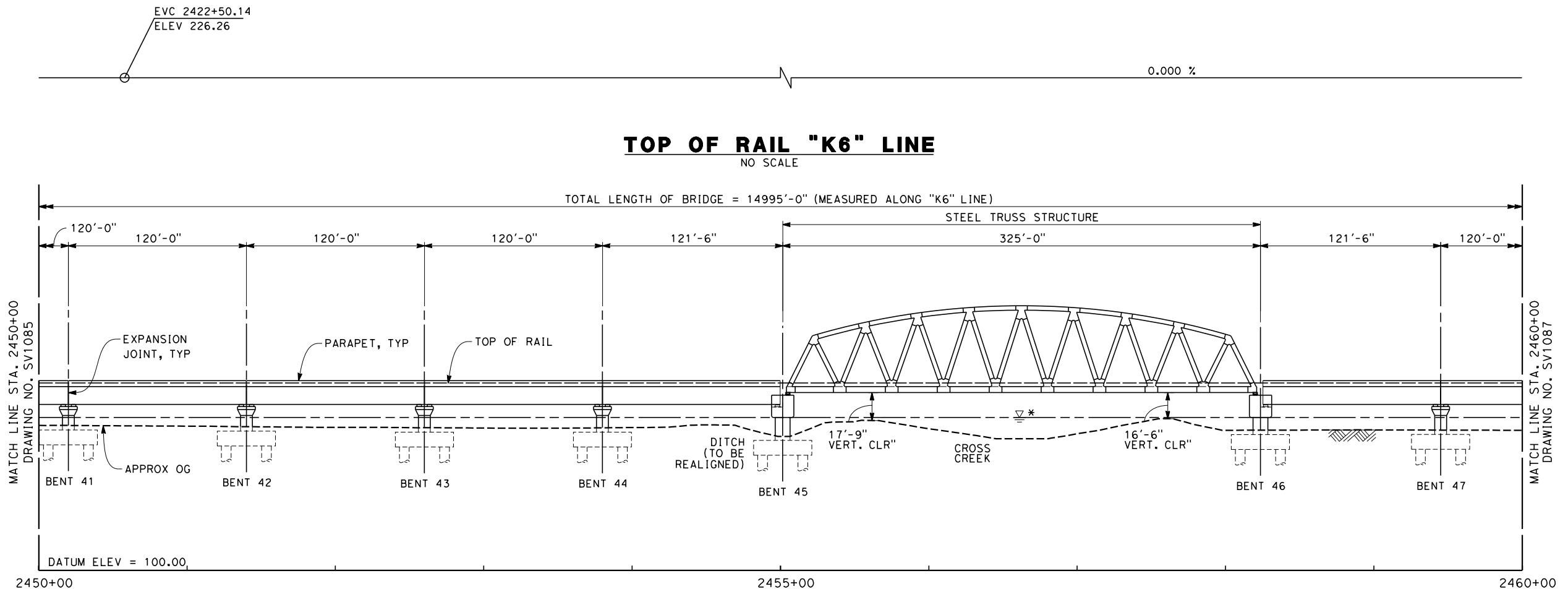
**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



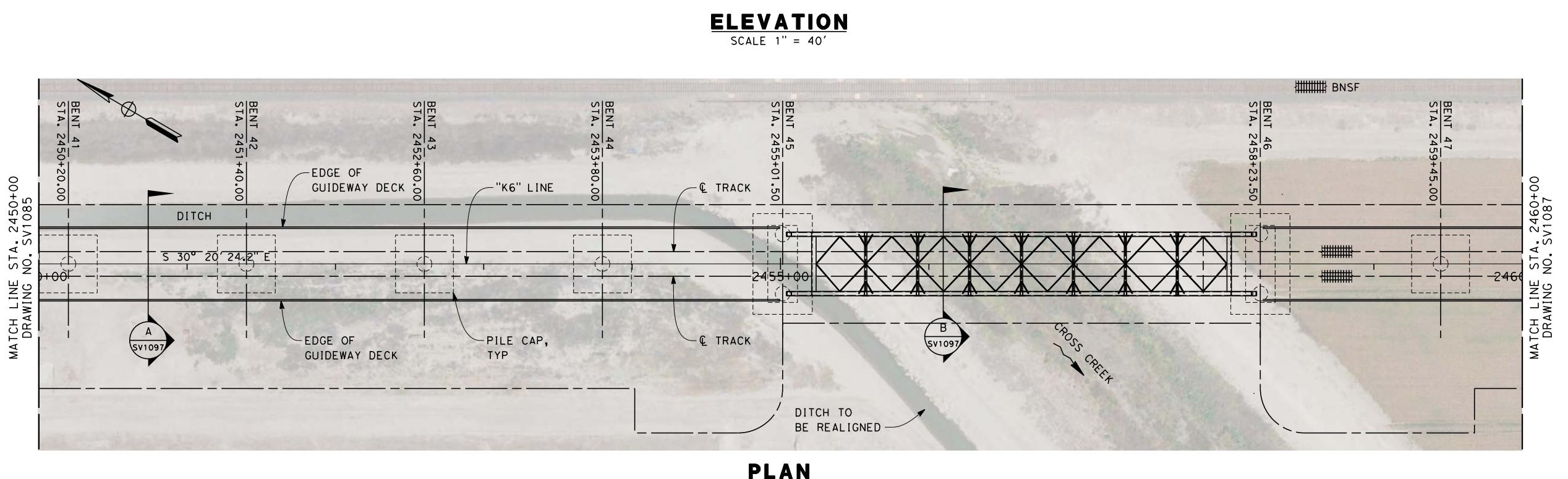
1. STRUCTURE APPROACH SLAB  
2. RETAINING WALL  
\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

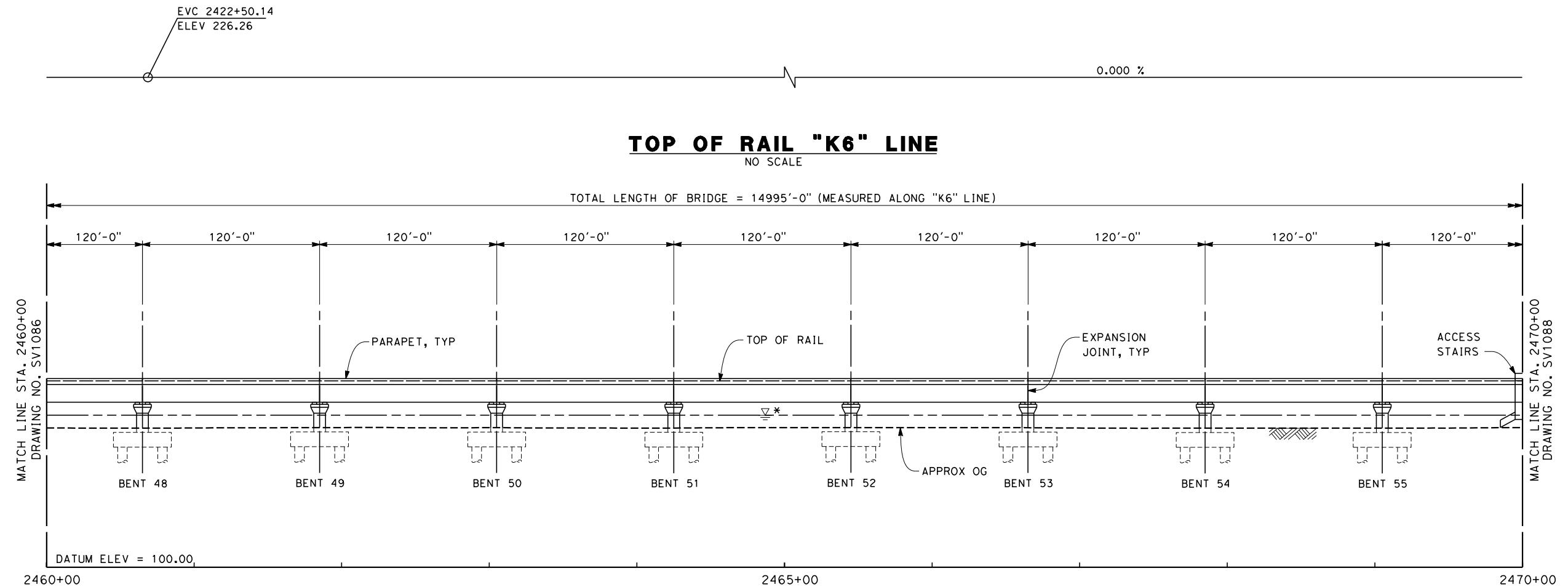




**NOTES**

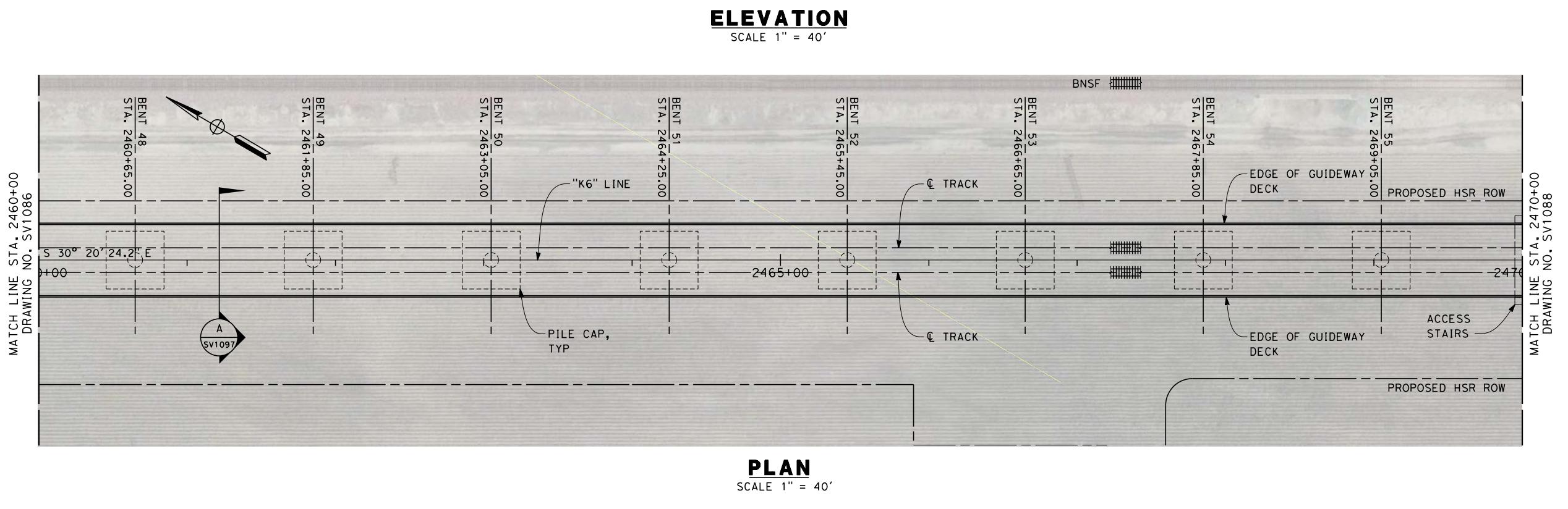
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

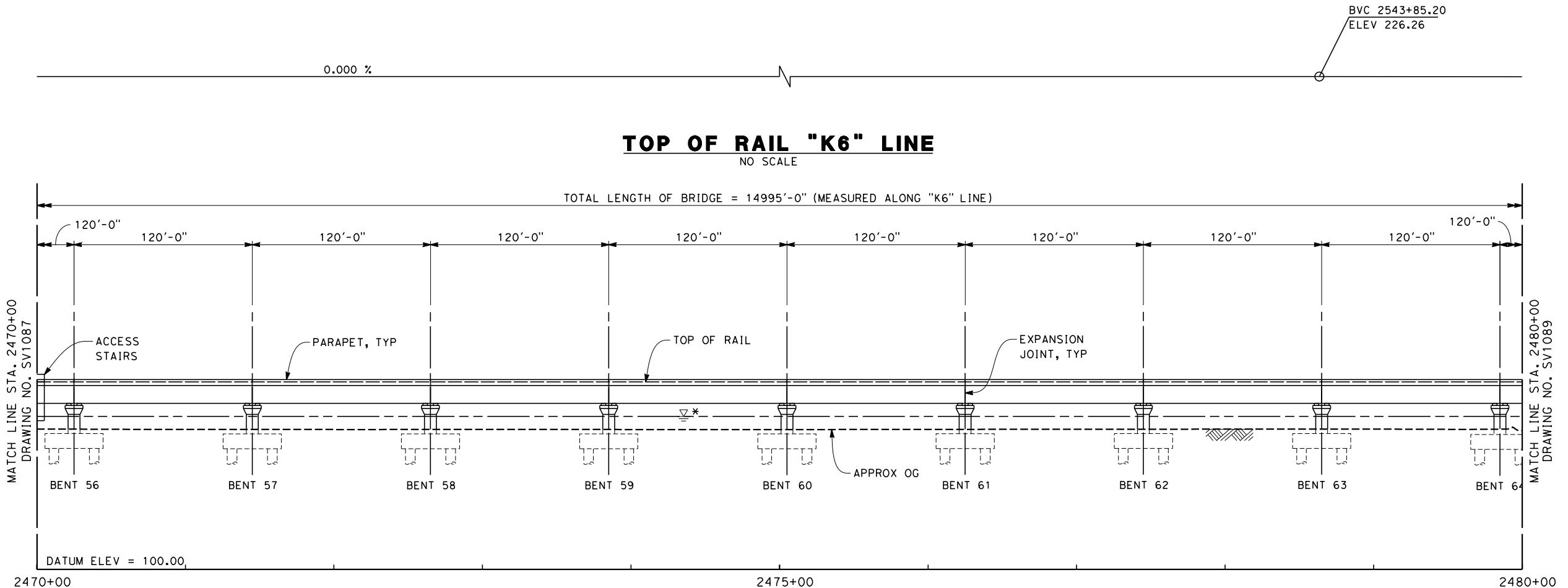




**NOTES**

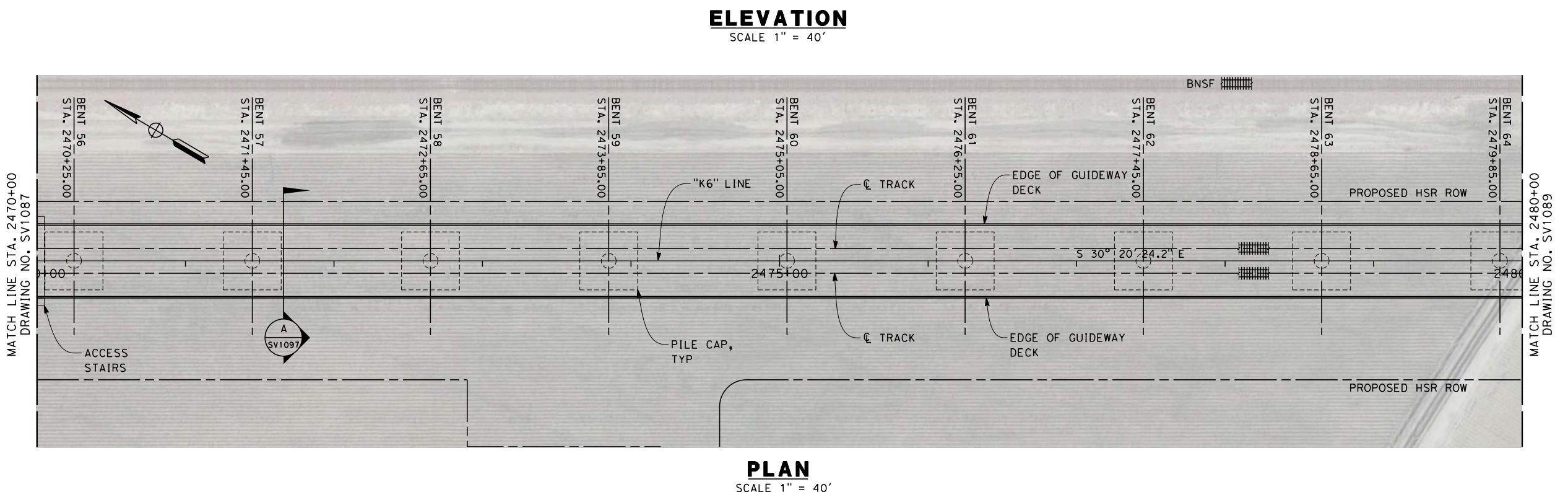
1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
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**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

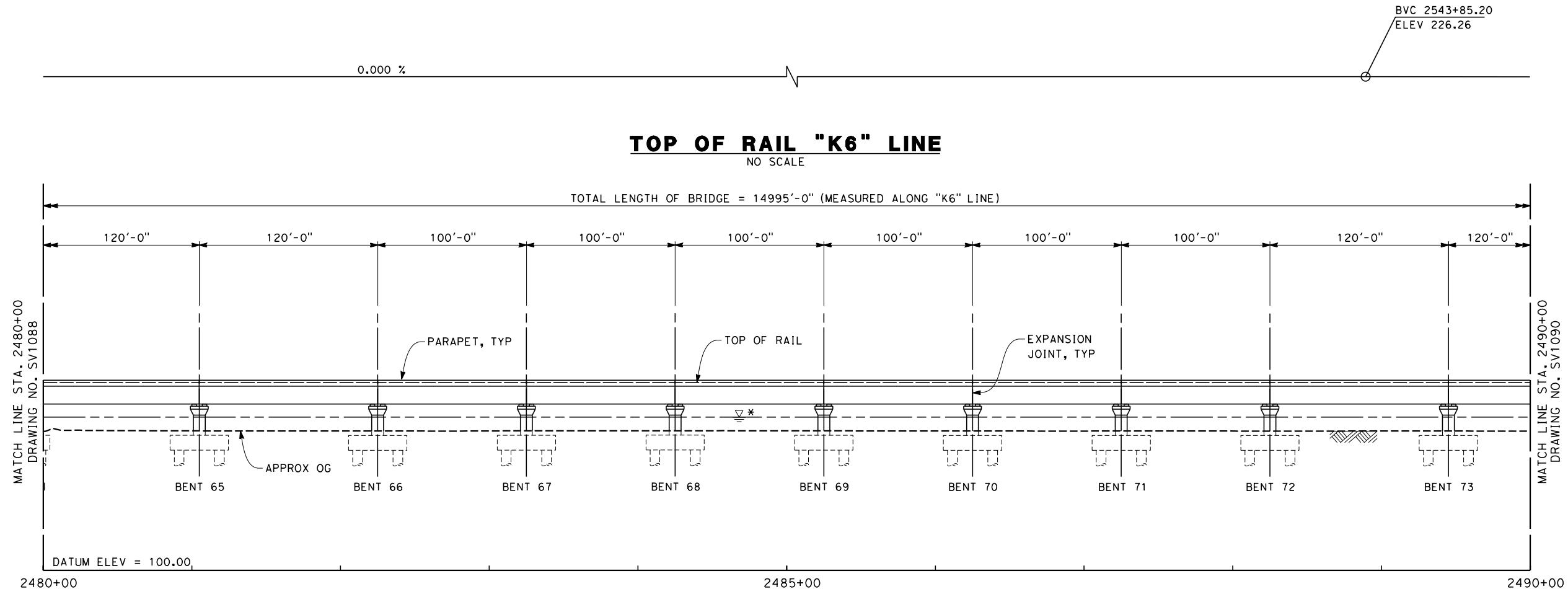
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



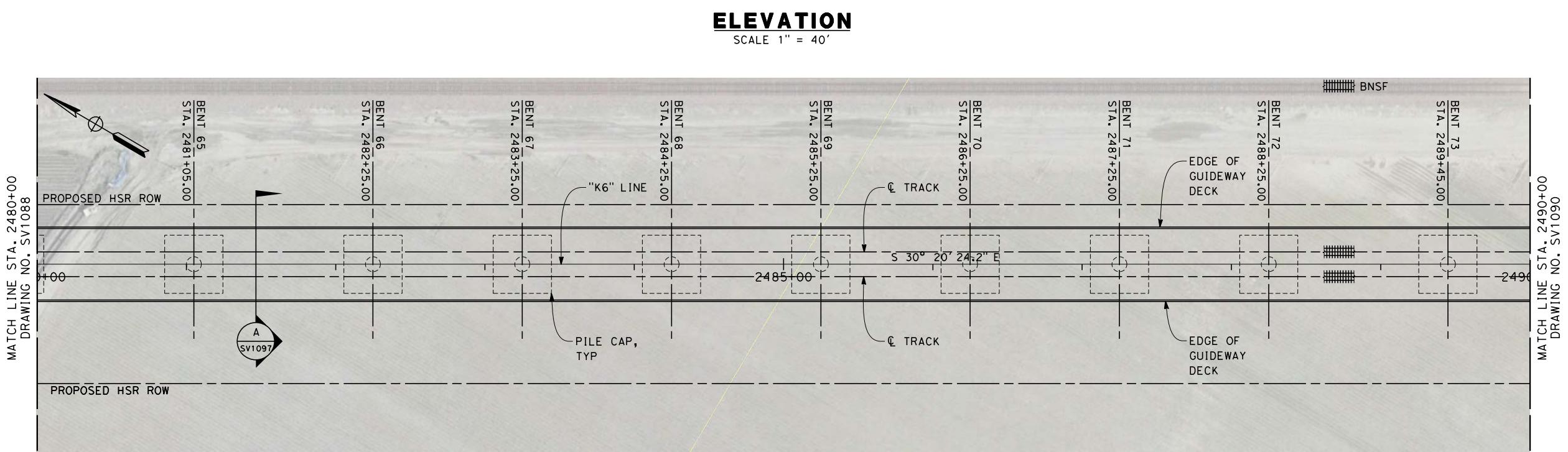
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
PLAN AND PROFILE

CONTRACT NO.  
HSR06-0003  
DRAWING NO.  
SV1088  
SCALE  
AS SHOWN  
SHEET NO.  
9 OF 18



NOTES

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



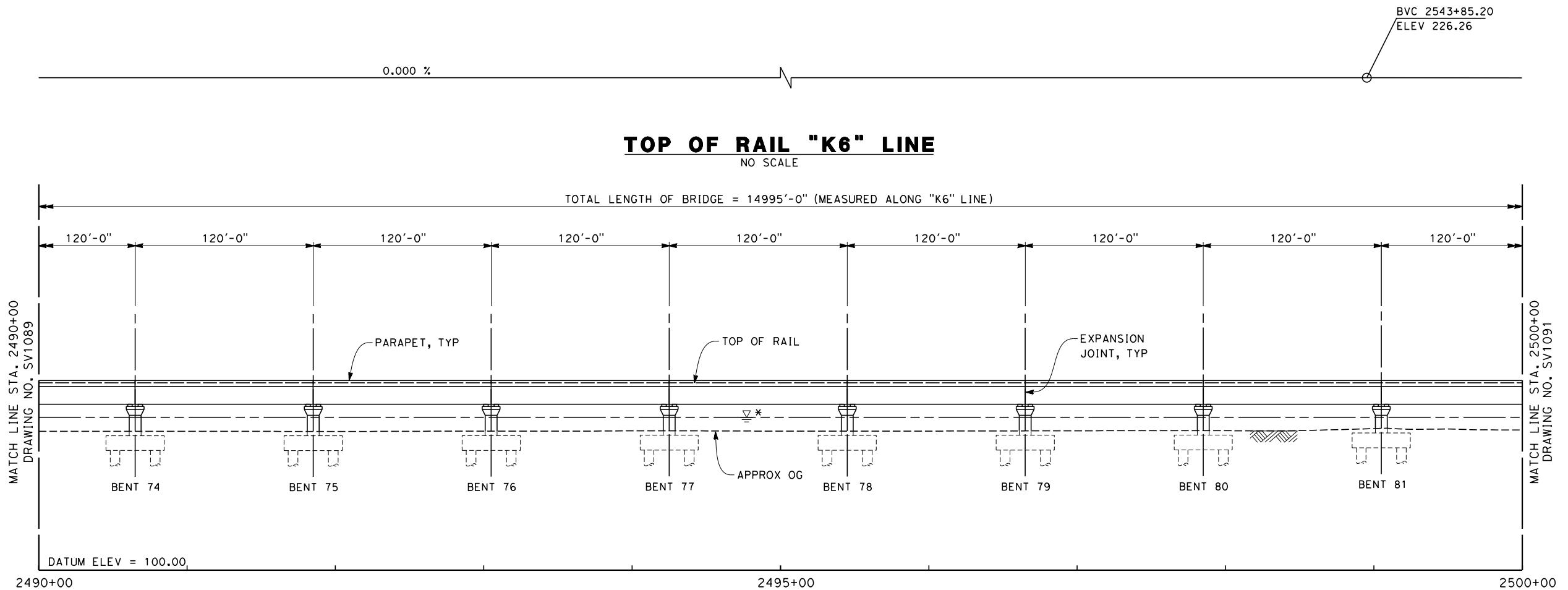
LEGEND:

1. STRUCTURE APPROACH SLAB
2. RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



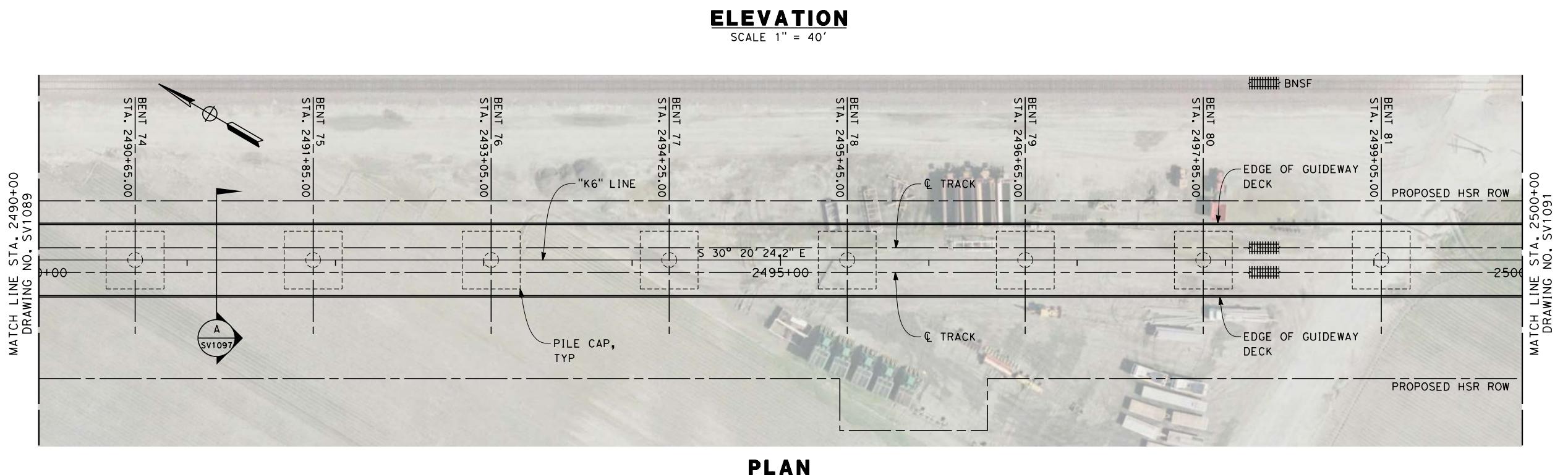
PLAN  
SCALE 1" = 40'

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	CONTRACT NO. HSR06-0003
DRAWN BY F. PALERMO	-	CALIFORNIA HIGH-SPEED TRAIN		DRAWING NO. SV1089
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION			SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 10 OF 18
DATE 12/31/13	DESCRIPTION			
REV	DATE	BY	CHK	APP



**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
4. UTILITY LOCATIONS TO BE DETERMINED
5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.



**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

DESIGNED BY M. FISHER	RECORD SET 15% DESIGN SUBMISSION	URS   HMM   ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD KAWeah SUBSECTION ALIGNMENT K6 CROSS CREEK VIADUCT PLAN AND PROFILE	CONTRACT NO. HSR06-0003
DRAWN BY F. PALERMO	-				DRAWING NO. SV1090
CHECKED BY A. ARMSTRONG	NOT FOR CONSTRUCTION				SCALE AS SHOWN
IN CHARGE R. COFFIN					SHEET NO. 11 OF 18
DATE 12/31/13	DESCRIPTION				
REV	DATE	BY	CHK	APP	

andrew.armstrong\2/12/2013 2:38:57 PM c:\pwwork\ng\hmm\external\andrew.armstrong-arup.com\dms824\7\w+e-sv-109-k6.dgn

0.000 %

**TOP OF RAIL "K6" LINE**  
NO SCALE

TOTAL LENGTH OF BRIDGE = 14995'-0" (MEASURED ALONG "K6" LINE)

Match Line STA. 2500+00 Drawing No. SV1090

Match Line STA. 2510+00 Drawing No. SV1092

BENT 82 BENT 83 BENT 84 BENT 85 BENT 86 BENT 87 BENT 88 BENT 89 BENT 90

DATUM ELEV = 100.00

2500+00 2505+00 2510+00

- NOTES
  - 1. NOT ALL PILES SHOWN
  - 2. PILE LENGTH TO BE DETERMINED
  - 3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPM  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
ELEVATED SLABS - PC BEAM AND INSITU SLAB
  - 4. UTILITY LOCATIONS TO BE DETERMINED
  - 5. ACCESS STAIRWAYS ARE PROVIDED AT SYSTEMS SITES (APPROX. 2.5 MILE INTERVALS). LADDER ACCESS TO VIADUCTS IS PROVIDED AT 2500 FT INTERVALS WITH ACCESS ROAD AND TURNING CIRCLE WHERE NECESSARY.

LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL

\* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT"

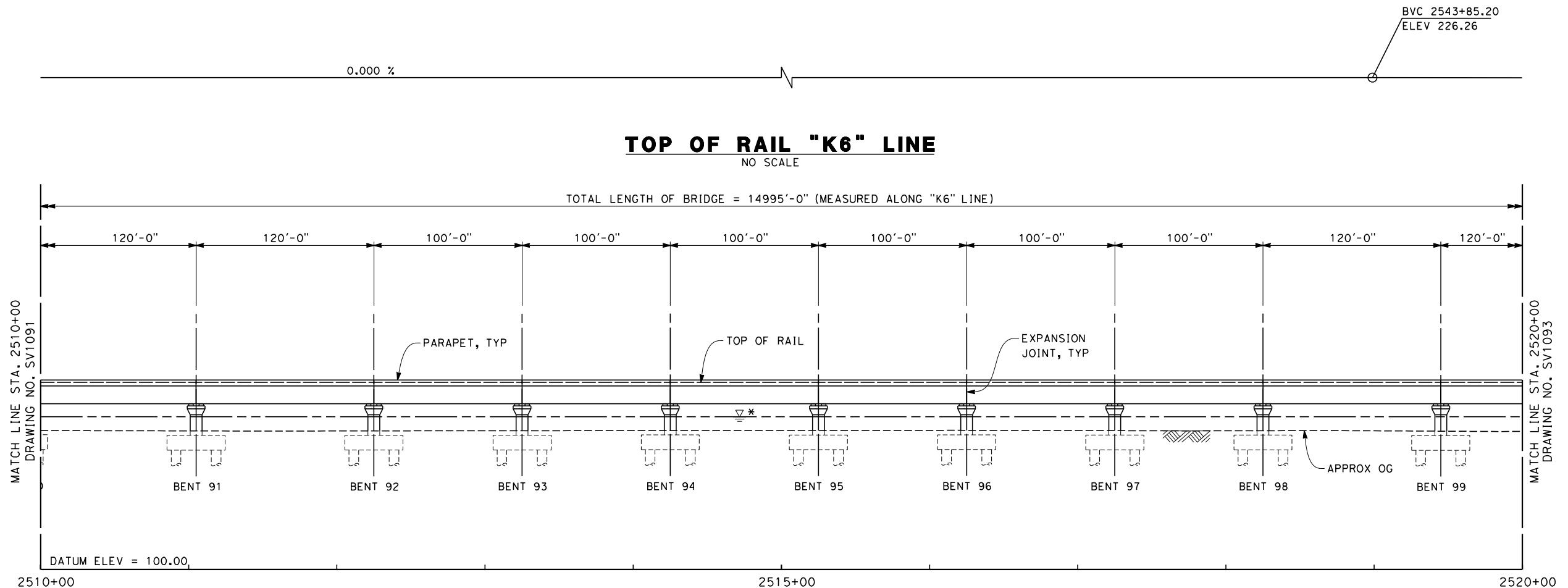
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DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

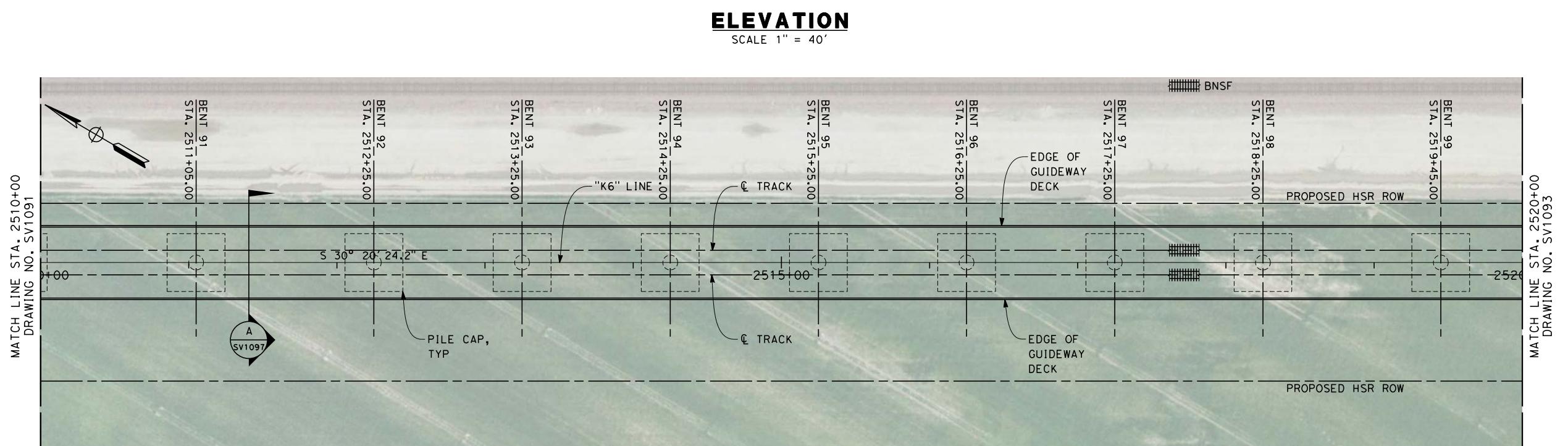
**KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
PLAN AND PROFILE**

CONTRACT NO.	HSR06-0003
DRAWING NO.	SV1091
SCALE	AS SHOWN
SHEET NO.	12 OF 18



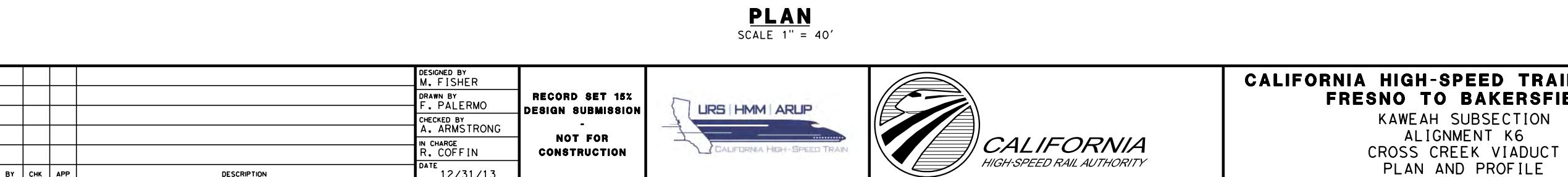
**NOTES**

1. NOT ALL PILES SHOWN
2. PILE LENGTH TO BE DETERMINED
3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLP  
CONTINUOUS SPANS - BCC - PRECAST IN-SITU  
STEEL TRUSS - INSITU, SLID OR LAUNCHED  
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**LEGEND:**

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

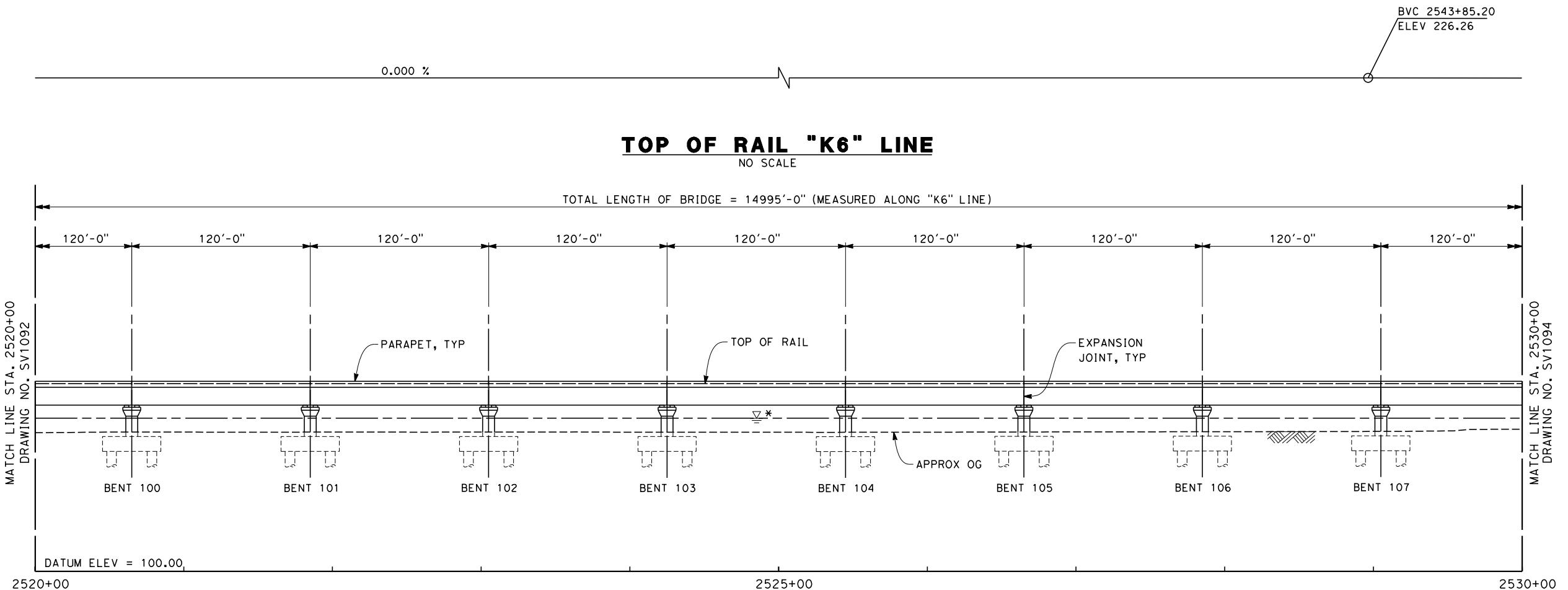
DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



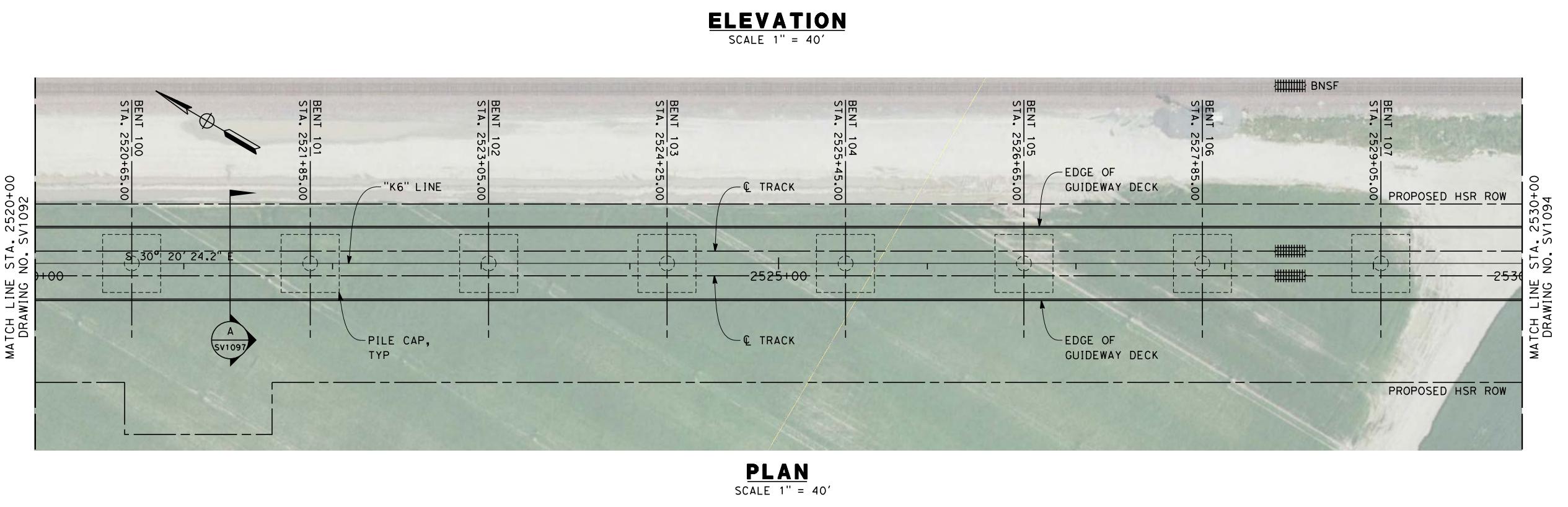
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
PLAN AND PROFILE

CONTRACT NO.  
HSR06-0003  
DRAWING NO.  
SV1092  
SCALE  
AS SHOWN  
SHEET NO.  
13 OF 18



NOTES

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andrew.armstrong2 11/2/2013 2:40:23 PM C:\pworking\hmm\external\andrew.armstrong-ar-up.com\dmis82477\W-FB-SV-1094-K6.dgn

0.000 %

**TOP OF RAIL "K6" LINE**  
NO SCALE

TOTAL LENGTH OF BRIDGE = 14995'-0" (MEASURED ALONG "K6" LINE)

MATCH LINE STA. 2530+00  
DRAWING NO. SV1093

MATCH LINE STA. 2540+00  
DRAWING NO. SV1095

120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 120'-0" 100'-0" 120'-0"

PARAPET, TYP

TOP OF RAIL

EXPANSION JOINT, TYP

BENT 108 BENT 109 BENT 110 BENT 111 BENT 112 BENT 113 APPROX OG BENT 114 BENT 115 BENT 116

DATUM ELEV = 100.00

2530+00 2535+00 2540+00

NOTES

- 1. NOT ALL PILES SHOWN
- 2. PILE LENGTH TO BE DETERMINED
- 3. SUPERSTRUCTURE CONSTRUCTION, UON SIMPLE SPANS - MSS OR FLPM  
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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".

**RECORD SET 15%**  
**DESIGN SUBMISSION**  
-  
**NOT FOR**  
**CONSTRUCTION**



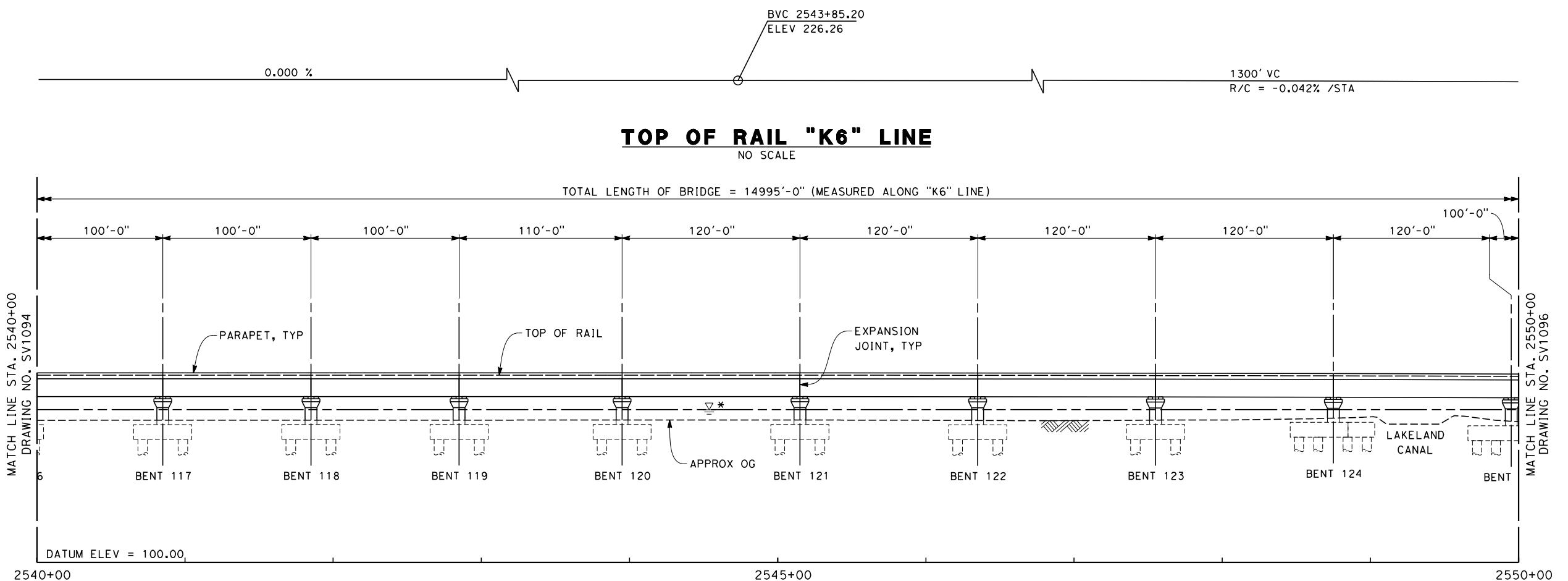
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
PLAN AND PROFILE**

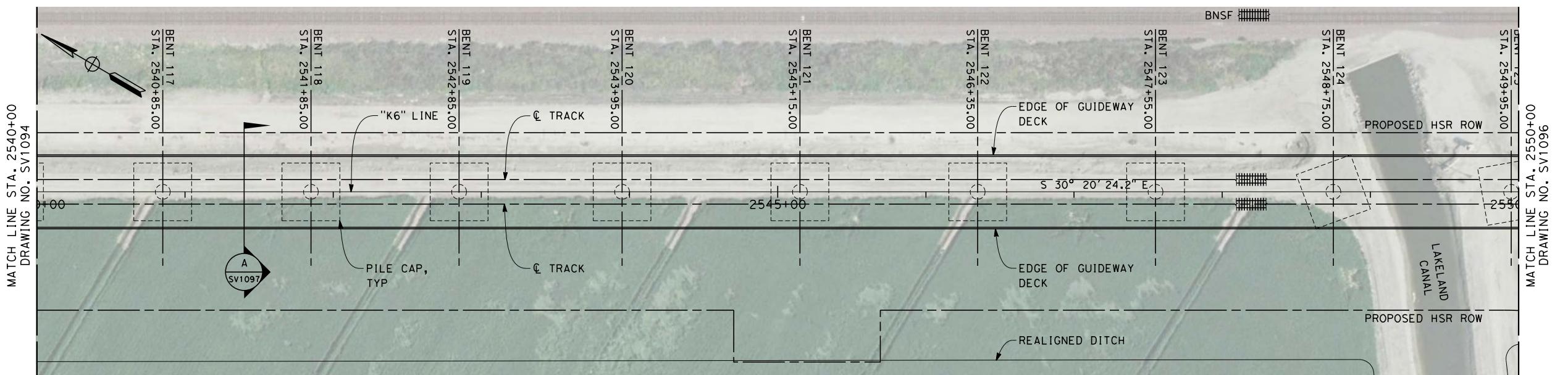
CONTRACT NO.	HSR06-0003
DRAWING NO.	SV1094
SCALE	AS SHOWN
SHEET NO.	15 OF 18

**NOTES**

1. NOT ALL PILES SHOWN
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**ELEVATION**  
SCALE 1" = 40'

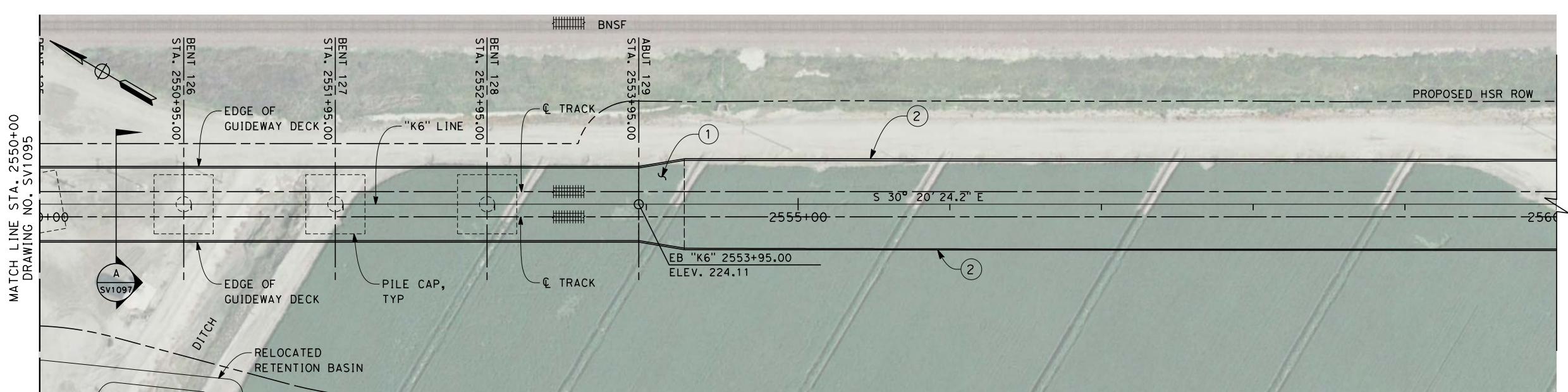
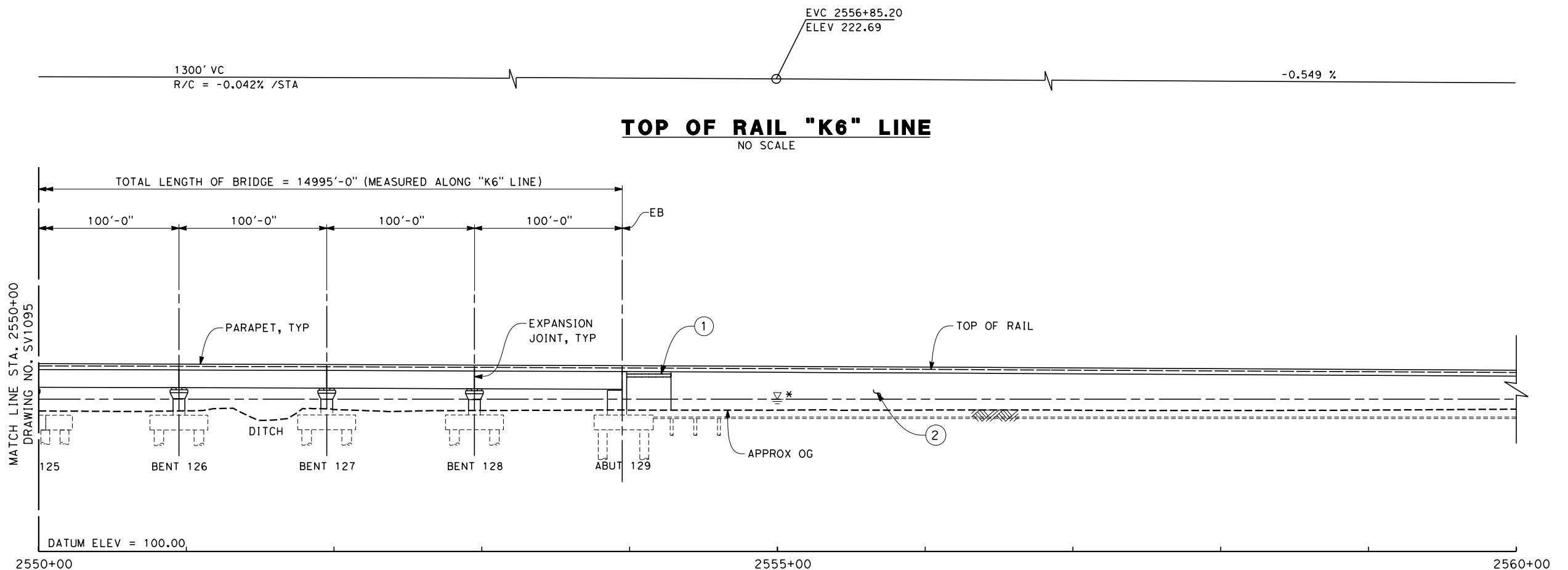


**PLAN**  
SCALE 1" = 40'



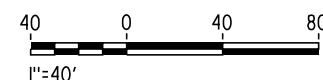
NOTES

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LEGEND:

- ① STRUCTURE APPROACH SLAB
- ② RETAINING WALL
- \* ESTIMATED 100-YEAR FLOOD ELEVATION, SEE "FRESNO TO BAKERSFIELD CORRIDOR HYDROLOGY, HYDRAULICS AND DRAINAGE 15% DRAFT REPORT".



DESIGNED BY	M. FISHER
DRAWN BY	F. PALERMO
CHECKED BY	A. ARMSTRONG
IN CHARGE	R. COFFIN
DATE	12/31/

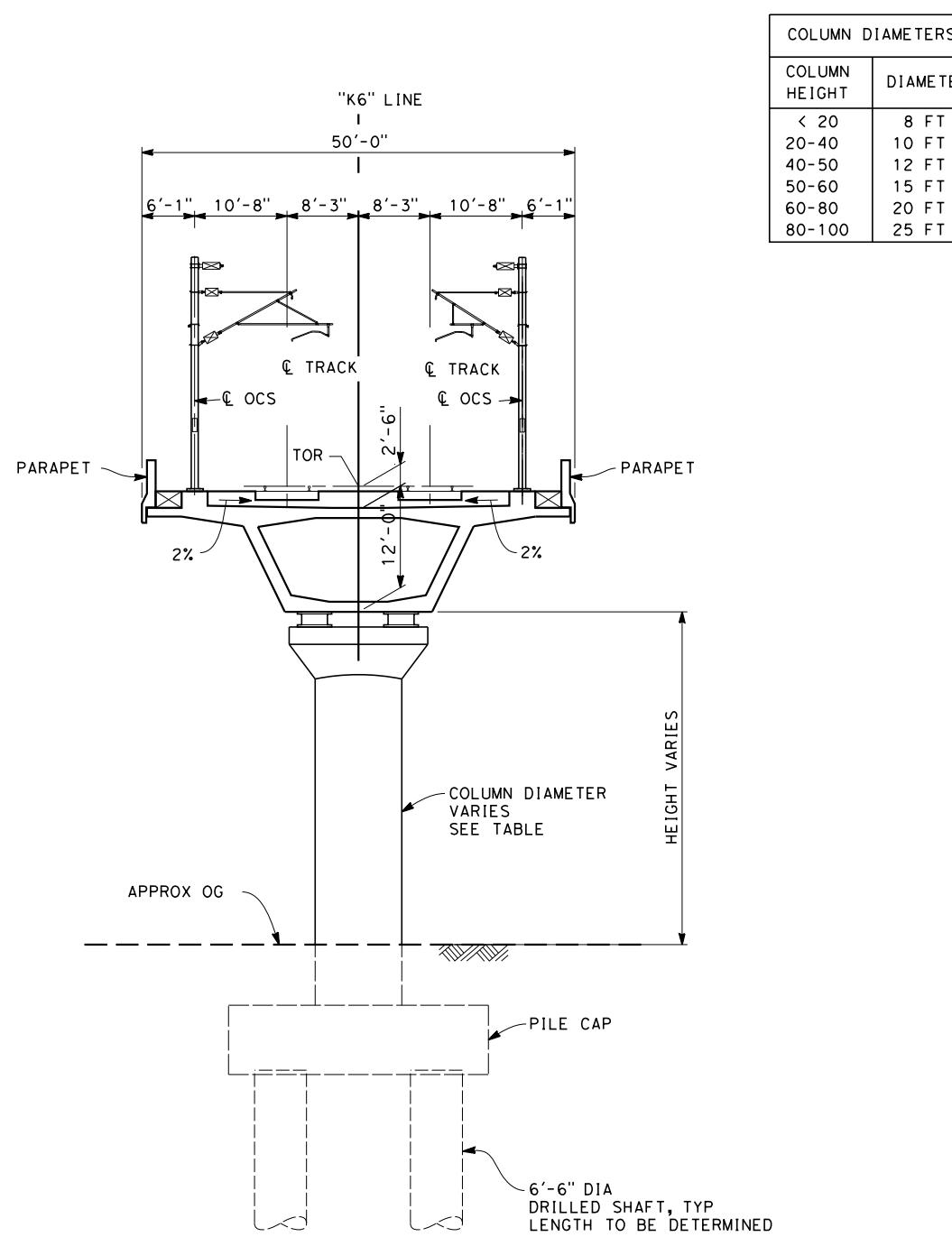
**RECORD SET 15%  
DESIGN SUBMISSION**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJ**  
**FRESNO TO BAKERSFIELD**  
**KAWeah SUBSECTION**  
**ALIGNMENT K6**  
**CROSS CREEK VIADUCT**  
**PLAN AND PROFILE**

CONTRACT NO.	HSR06-0003
DRAWING NO.	SV1096
SCALE	AS SHOWN
SHEET NO.	17 OF 18

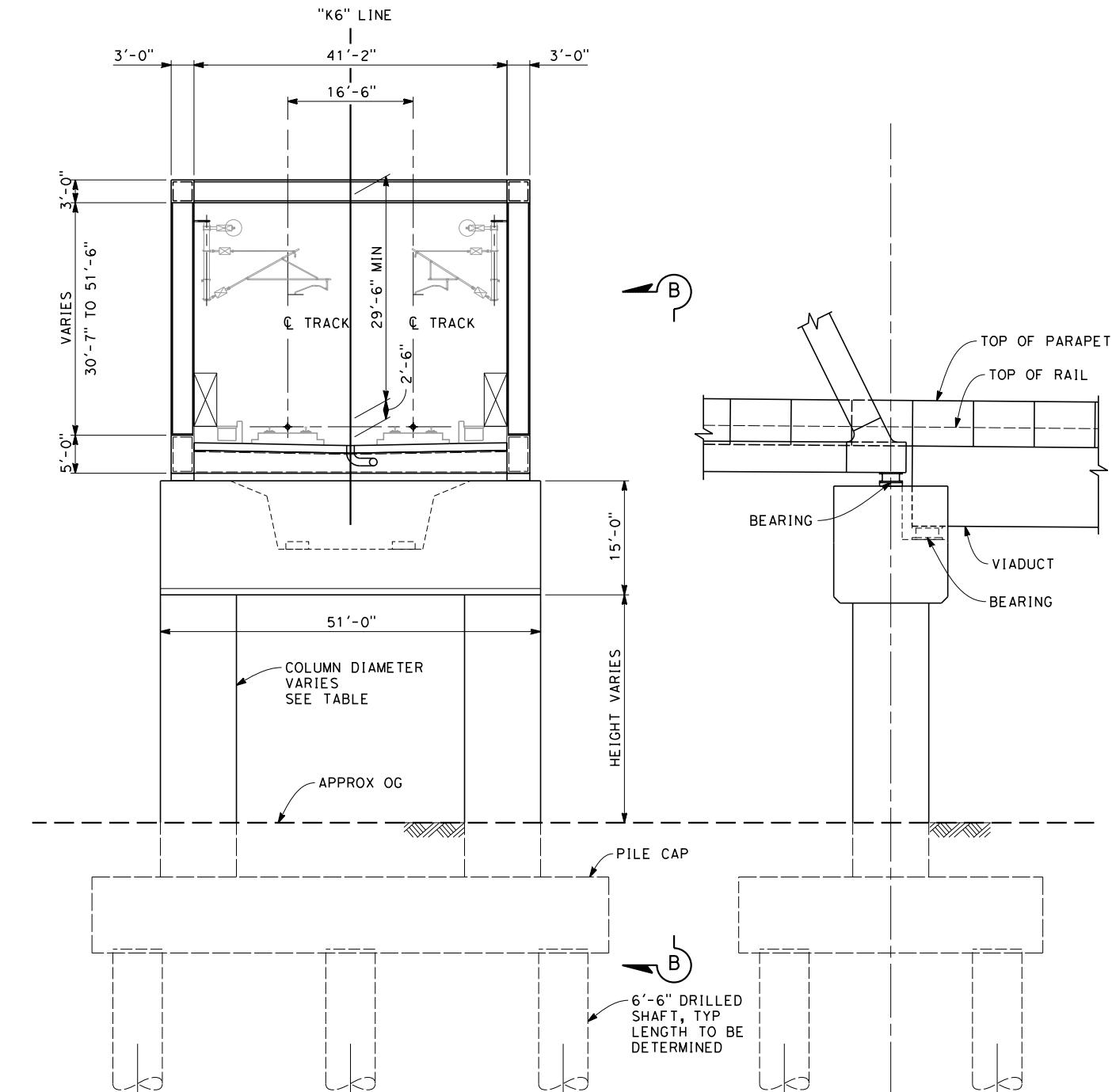


### SECTION A

SCALE: 1" = 10'

STA 2404+00 THROUGH 2455+02  
STA 2458+24 THROUGH 2553+95

NOTE:  
1. MINIMUM DIMENSION FROM SOFFIT TO  
TOP OF FOUNDATION SHALL BE 16'.



### SECTION B

SCALE: 1" = 10'

STA 2455+02 THROUGH 2458+24

### SECTION B-B

SCALE: 1" = 10'



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY  
M. FISHER  
DRAWN BY  
F. PALERMO  
CHECKED BY  
A. ARMSTRONG  
IN CHARGE  
R. COFFIN  
DATE  
12/31/13

RECORD SET 15%  
DESIGN SUBMISSION  
-  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
KAWeah SUBSECTION  
ALIGNMENT K6  
CROSS CREEK VIADUCT  
TYPICAL SECTIONS

CONTRACT NO.  
HSR06-0003  
DRAWING NO.  
SV1097  
SCALE  
AS SHOWN  
SHEET NO.  
18 OF 18